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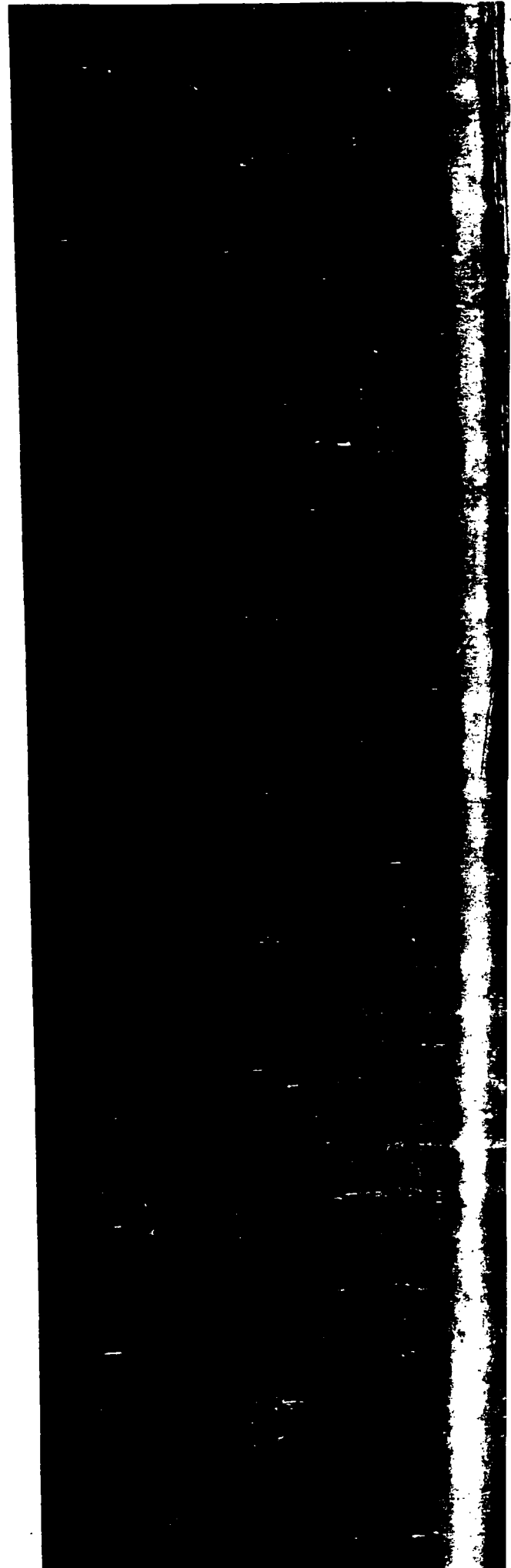
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PRODUCT GUIDE



July 20, 1966

To The Reader:

While the Product Guide was in preparation, the Grace organization continued to grow. Noted below are several recent organizational changes that have a bearing on the use of the information in this publication.

New Organizational Unit	Responsible for	Listed in the Product Guide Under These Units
Agricultural Chemicals Group	Grace's worldwide activities in agricultural chemicals, handled through the Caribe Nitrogen Corporation (Puerto Rico), Federation Chemicals Limited (Trinidad) and the Europe/Africa Section. All domestic agricultural operations including fertilizers, feed, pesticides and seed, handled through the Agricultural Products Division.	Davison Chemical Division's agricultural operations See pp. 28-34 Nitrogen Products Division See pp. 62-66
Industrial Chemicals Group	Grace's domestic industrial chemical operations.	Davison Chemical Division's industrial chemical operations See pp. 28-34 Dewey and Almy Chemical Division including Zonolite and Hampshire Chemical See pp. 35-47 Nuclear Fuel Services, Inc. (an 80%-owned subsidiary) See pp. 30-34
Specialty Products Group	All domestic specialty product operations — chemical cleaning compounds, water treatment chemicals, protective coatings, pollution control programs, germicides and bactericides, and disposable medical products.	DuBois Chemicals Division See pp. 48-50 Dearborn Chemical See pp. 51-52 Vestal Laboratories See p. 53 Veratex See p. 54
Technical Group	Research Division; coordination of all worldwide technological activities of the Company.	

Periodically Grace will issue supplements to the Product Guide to keep its contents up-to-date. The supplements will list new products, new plant and sales office locations and new operating units of the Company. The first supplement is scheduled for distribution in the Fall of this year. To receive yours, contact any Grace office for a copy.

GRACE



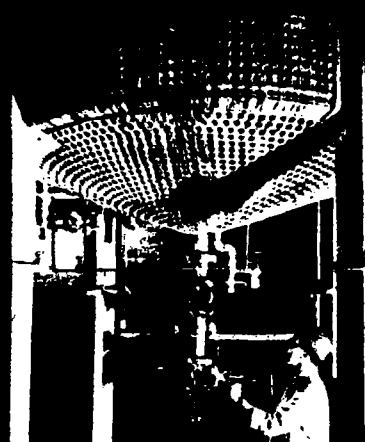
Production of a new fertilizer at
Fertilizer, New Jersey
NITROGEN PRODUCTS DIVISION



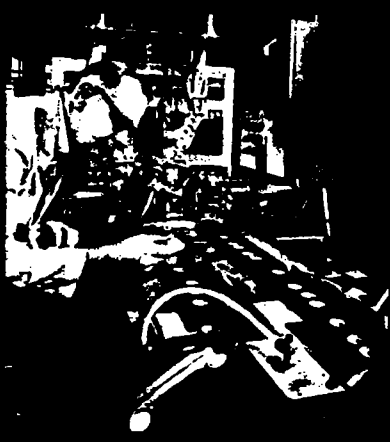
A production of a fertilizer at Bartow, Florida
Fertilizer, New Jersey
NITROGEN PRODUCTS DIVISION



Grace chemical specialties are carefully formulated for specific jobs
Fertilizer, New Jersey
NITROGEN PRODUCTS DIVISION



Grace SLURRY MIX fertilizers
on the job - Corn Belt U.S.A.
NITROGEN PRODUCTS DIVISION



New convenience
storages depend
on GNA sealants
NAVY AND ARMY
CORPORATION



Quality control is a byword
in Grace packaging
CRYSTAL DIVISION



Vapor barrier studies at the
Washington Research Center
RESEARCH DIVISION



PRODUCT GUIDE

W. R. GRACE & CO.

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The Many Worlds of GRACE

The activities of W. R. Grace & Co. have embraced a number of fields in the 112 years since the Company began. For almost the first full century of its existence, the Grace organization devoted its energies principally to the shipping and trading of agricultural and industrial commodities. By the 1930's, these early "worlds of Grace" had expanded to include banking, air transportation and a steadily growing base in industrial manufacturing.

Early in the 1950's, Grace began its rapid development in still another new world — that of chemical manufacturing and marketing. Today, some fifteen years after that new corporate direction was charted, operations in chemicals and related products account for two thirds of consolidated sales and revenues, which passed the \$1 billion mark for 1965. Along with chemicals, Grace's interests in food, agricultural products and petroleum have developed into major enterprises.

In cultivating these new worlds of growth, the Grace organization has become established in virtually every part of the globe. More than 250 Grace plants serve customers the world over through a network of more than 300 sales offices and numerous warehouses and other distribution locations. These Grace facilities, employing more than 53,400 people, are located in thirty-three nations of the world and in thirty-nine states in the U.S.A. Complete addresses of these facilities are found in later sections.

Research — Key to Tomorrow's Technology

Another of the many "worlds of Grace" is technological innovation — based on the continuing search for new knowledge, new processes and new products to meet tomorrow's needs. The knowledge and experience of the Grace organization are available to every customer in the form of continuing process development, expert technical service and aggressive product improvement.

The key to tomorrow's technology lies in expanding the frontiers of knowledge. Grace supports its varied industrial and consumer enterprises with a broad basic research program that is closely coordinated with the applied development activities of the company's operating units.

At the hub of this research program is the Washington Research Center in Clarksville, Maryland, headquarters of the Research Division. Here, and at other Grace laboratories throughout the world, 1,000 Grace scientists, technicians and supporting staff members work to develop and refine the knowledge that will lead to tomorrow's products with *that extra touch of Grace*.

This Product Guide provides descriptions of Grace's 600 principal product families and several thousand products ranging from agricultural products, industrial chemicals and construction and plastics materials to food products, paper and packaging materials and a broad line of specialty products.

How to Use the Product Guide

Products

Products are alphabetically indexed on pages 5 through 24. The Index refers the reader to the pages in the Operating Unit sections, where product descriptions will be found. Index terms within parentheses, i.e. Acrylic Copolymer Emulsions (DAREX Coating Emulsions) are the specific headings under which product listings will be found within the Operating Unit sections.

Principal Trademarks and Trade Names

The principal trademarks and trade names of W. R. Grace & Co., its subsidiaries and its affiliated companies are listed alphabetically in the Index, together with their descriptive product names. Grace trademarks registered in the U.S. are indicated by the symbol ®; unregistered Grace trademarks are indicated by an asterisk (*). Trademarks and trade names listed in the Index appear throughout the book in capital letters. The Operating Unit sections provide general product information, but generally do not list the trade names.

Grace Operating Units

The Operating Units that manufacture or market products are indexed separately on page 5.

Plants and Sales Offices

At the beginning of each Operating Unit section, Plant and Sales Office facilities are listed alphabetically and numbered. To determine which of these facilities handles a specific product, note the number references shown directly under the product description; then refer to the corresponding numbers in the list of Plants and Sales Offices at the beginning of that particular Operating Unit section.

Example: Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

● 1 - 3 - 4 - 5

▲ 6 through 22

Where the number references to Plants and Sales Offices apply to several products listed consecutively, they appear at the end of that product group.

Legend:

● denotes number reference to Plant locations.

▲ denotes number reference to Sales locations.

For additional information and detailed technical data, contact the appropriate operating unit directly or write W. R. Grace & Co., 7 Hanover Square, New York, New York 10005.

NOTES

In this publication, "Grace" refers to W. R. Grace & Co. and/or one or more of its subsidiary companies. All of Grace's operations outside of the United States, as well as some of its United States operations, are carried on through subsidiaries. The names of subsidiary companies are given where useful.

We believe the information contained herein to be accurate, but no representations or warranties of any kind are made with respect to such information, and neither Grace nor any of its subsidiaries or affiliates shall be liable on account of the use thereof. Grace does not hereby suggest, recommend or consent to the use of any process or to the manufacture, use or sale of any product in violation of existing or future patents owned by Grace or others.

Trademarks and trade names are indicated as registered or unregistered with regard to their status in the United States of America. No other statement concerning the registry or status in other countries is made or intended, nor should it be inferred from the information contained herein.

Printed in the United States of America

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Including Principal Trademarks and Trade Names

This Index lists the products and the principal trademarks and trade names of W. R. Grace & Co. and its subsidiaries. Entries appear in alphabetical sequence and are cross-referenced under category headings which list products having a similar nature (e.g. acids, alcohols, sulfates) or those serving a particular industrial use (Agricultural Chemicals, Construction Materials, Packaging Materials).

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*Trademark of W. R. Grace & Co.

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GRACE

Operating Units



CRYOVAC DIVISION

Manufactures plastic packaging materials. Flexible packaging products include bags, films, pouches and laminates as well as complete packaging systems for industry. Rigid container products include AIRMOLD blow molded boxes for consumer packaging and biaxially-oriented and rigid foam polystyrene containers.

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Simpsonville (29681)
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23 ONTARIO, Toronto
4196 Dundas Street, West
Suite 207
(416) 239-4838

24 QUEBEC, Montreal
6333 Decarie Blvd.
(514) 731-3438

PRODUCTS

PLASTIC CONTAINERS

AIRMOLD Blow Molded Packaging

Custom blow molded double-wall boxes in varying sizes and interior configurations for specialty packaging of power tools, cameras and other industrial and consumer products.

- 1
- ▲ 17

Rigid Containers

Biaxially-oriented and rigid foam polystyrene containers and trays for packaging meats, poultry, fish, bakery and confectionery products. Non-food applications include records, toys, games, textiles and paper.

- 4
- ▲ 15

SHRINKING BAGS AND CASINGS

CRYOVAC "L" for packaging turkeys, whole chickens and ducks.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

CRYOVAC "S" for packaging smoked, cured and processed meats, beef, cheese and poultry.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

CRYOVAC "S" casings for packaged, smoked, cured and processed meats.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

SHRINKING FILMS

Polyethylene

CRYOVAC "D" for packaging toys, phonograph albums, specialties, meats and bakery items.

CRYOVAC "L" for packaging whole and cut-up broilers, turkey parts and bakery items.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

Polyvinylidene Chloride

CRYOVAC "S" for packaging meat and cheese.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

Polypropylene

CRYOVAC "J" for packaging textiles, games and paper products.

CRYOVAC "Y" for packaging phonograph albums and toys. Also CRYOVAC "Y"-Perforated for produce, both shrink and non-shrink applications.

CRYOVAC "YH" for laminating with cellophane.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

LAMINATES

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

POUCHES

For packaging a variety of cured, smoked and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

EQUIPMENT

Customized packaging lines: automatic, semi-automatic and hand-operated equipment for edge sealing and vacuum sealing; shrink tunnels, clip applicators.

- 2
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24

Manufactures and markets agricultural and industrial products, including superphosphate; triple superphosphate; diammonium phosphate; phosphate rock; ammonium sulfate; ammonium nitrate; anhydrous ammonia; nitrogen solutions; ammonium nitrate limestone; urea; phosphoric, hydrochloric, nitric, hydrofluosilicic and sulfuric acids; pesticides; silicofluorides; granulated and specialty fertilizers; pasture, turf and vegetable seeds; seed-treating equipment and chemicals; caustic soda and soda ash; petroleum and custom catalysts; micron-sized silicas; molecular sieves; silica gel and rare earths. Manufactures nuclear feed materials and provides spent nuclear fuel reprocessing and transportation services.

Headquarters Office

101 North Charles Street
Baltimore, Maryland 21203
(301) 727-3900

● Plants
UNITED STATES

- | | | |
|--|---|---|
| <p>1 FLORIDA, Bartow (33830)
P. O. Box 471
(813) 533-2171</p> <p>2 FLORIDA, Fort Pierce (33451)
P. O. Box 36
(305) 461-7020</p> <p>3 FLORIDA, Tampa (33601)
34th St. & 3rd Ave.
(813) 248-3101</p> <p>4 INDIANA, New Albany (47150)
Grant Line Road
(812) WHitehall 5-6671</p> <p>5 INDIANA, Wakarusa (46573)
(219) 862-2650</p> <p>6 IOWA, Perry (50220)
P. O. Box 308
(515) HOmestead 5-3516</p> <p>7 LOUISIANA, Lake Charles
(70604)
P. O. Box BB
(318) 527-5228</p> <p>8 MARYLAND, Baltimore
(21226)
Curtis Bay Plant
(301) 355-4900</p> | <p>9 MARYLAND, Baltimore
(21226)
Hill Plant
(301) 355-6161</p> <p>10 MICHIGAN, Detroit (48209)
125 S. Junction Ave.
(313) 841-3700</p> <p>11 MICHIGAN, Lansing (48904)
2401 North High St.
(517) 482-0828</p> <p>12 MISSOURI, Joplin (64802)
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(417) MAYfair 4-6900</p> <p>13 MISSOURI, Trenton (64683)
P. O. Box 220
(816) ELmwood 9-3316</p> <p>14 NEW JERSEY, Pompton Plains
(07444)
P. O. Box 188
(201) 835-3060</p> <p>15 NEW MEXICO, Gallup (87301)
P. O. Box 506
(505) 863-6001</p> <p>16 NORTH CAROLINA, Cary
(27511)
P. O. Box 357
(919) 463-2371</p> <p>17 NORTH CAROLINA, Raleigh
(27602)
P. O. Box 68
(919) 834-3131</p> | <p>18 NORTH CAROLINA, Statesville
(28677)
P. O. Box 1163
(704) 872-6361</p> <p>19 NORTH CAROLINA, Wilmington (38402)
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4775 Paddock Road
(513) 242-3312</p> <p>22 OHIO, Columbus (43216)
1465 E. 17th Ave.
(614) 294-4413</p> <p>23 OHIO, Findlay (45840)
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(419) GArden 2-5232</p> <p>24 SOUTH CAROLINA, Charleston (29402)
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(803) RAYmond 2-3321</p> <p>25 TENNESSEE, Chattanooga
(37404)
4000 N. Hawthorne St.
(615) 698-3461</p> <p>26 TENNESSEE, Nashville
(37209)
P. O. Box 7665
(615) 269-4536</p> |
|--|---|---|

27 TENNESSEE, South Pittsburg (37380)
3rd St. and Railroad Ave.
(615) 837-6778

28 VIRGINIA, Norfolk (23501)
P. O. Box 1321
(703) 622-5752

CANADA

29 QUEBEC, Valleyfield
42 Fabre St.
(514) 373-4224

FRANCE

30 Société Atlantique d'Engrais
Chimiques
25 Rue Thiers
Bayonne
Tel. 25-39-57

A Sales Offices

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327 North St.

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(813) 533-5171

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P. O. Box 36
(305) 461-7020

35 FLORIDA, Tampa (33601)
34th St. & 3rd Ave.
(813) 248-3101

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303 Radcliffe Way, Hinsdale

37 ILLINOIS, Streator (61364)
P. O. Box 515
(815) STreator 2-2148

38 INDIANA, New Albany (47150)
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Wakarusa, Indiana
(219) 862-2650

40 IOWA, Perry (50220)
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(515) HOMestead 5-3516

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42 MARYLAND, Baltimore (21226)
Hill Plant
(301) 355-6161

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125 South Junction Ave.
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(517) 482-0826

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(417) MAYfair 4-6900

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P. O. Box 220
(816) ELMwood 9-3316

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P. O. Box 188
(201) 835-3060

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(919) 463-2371

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P. O. Box 68
(919) 834-3131

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P. O. Box 1163
(704) 872-6361

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(919) 762-5256

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(216) TALbot 1-3550

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1465 E. 17th Ave.
(614) 294-4413

54 OHIO, Findlay (45840)
E. Bigelow Ave., P.O. Box 86
(419) GARDen 2-5232

55 OKLAHOMA, Tulsa (74103)
606 Mayo Building
(918) 584-7414

56 PENNSYLVANIA, Wallingford (19086)
Rabbit Run, Rose Valley

57 SOUTH CAROLINA, Charleston (29402)
P. O. Box 858
(803) RAYmond 2-3321

58 TENNESSEE, Chattanooga (37404)
4000 North Hawthorne St.
(615) 696-3461

59 TENNESSEE, Chattanooga (37406)
1322 Hamilton National Bank Bldg.
(615) 266-8616

60 TENNESSEE, Nashville (37209)
P. O. Box 7665
(615) 269-4536

61 TEXAS, Houston (75004)
4101 San Jacinto
(713) 526-1456

62 VIRGINIA, Norfolk (23501)
P. O. Box 1321
(703) 622-5752

CANADA

63 ALBERTA, Calgary
1609 14th St., S. W.
(403) 224-6467

64 ONTARIO, Toronto
347 Bay St.
(416) 364-9272

FRANCE

65 Société Atlantique d'Engrais
Chimiques
38 Rue de Bassano
Paris 8e
Tel. 359-05-89

NUCLEAR FUEL SERVICES, INC.

Manufactures nuclear feed materials; reprocesses and transports spent nuclear fuels.

General Office

101 North Charles Street
Baltimore, Maryland 21203
(301) 727-3900

● Plants

66 NEW YORK, West Valley
(14171)
P. O. Box 124
(716) 942-3235

67 TENNESSEE, Erwin (37650)
P. O. Box 218
(615) 742-1721

▲ Sales Offices

68 DISTRICT OF COLUMBIA
(Wheaton, Maryland)
906 Wheaton Plaza Office Bldg.
(301) 933-5440

69 NEW YORK, West Valley
(14171)
P. O. Box 124
(716) 942-3235

70 TENNESSEE, Erwin (37650)
P. O. Box 218
(615) 742-1721

RUDY-PATRICK SEED

Produces, refines and markets field and grass seeds
and seed treating equipment and chemicals.

General Office

1212 W. 8th St.
Kansas City, Missouri 64101
(816) 842-6830

● Plants

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Paynter & Aven Sts.
(208) 459-9041

72 IDAHO, Nampa (83651)
908 Front St.
(208) 466-9218

73 IDAHO, Twin Falls (83301)
202 Fourth Ave. South
(208) 733-8055

74 ILLINOIS, Mount Vernon
(62864)
10th & Casey Sts., P.O. Box 783
(618) 244-0127

75 ILLINOIS, Princeton (61356)
R. R. 1, P. O. Box 170
(815) 872-1612

76 IOWA, Grinnell (50112)
829 Spring Street, P.O. Box 148
(515) 236-5379

77 IOWA, Sioux City (51102)
21st & Clark Sts., P.O. Box 844
(712) 255-4270

78 KANSAS, Hutchinson (67501)
Jefferson & D Sts., P.O. Box 568
(316) 665-4469

79 MISSISSIPPI, Columbus
(39702)
915 Second St. South
(601) 328-5010

80 MISSOURI, Jefferson City
(65101)
1011 W. Miller Street
(314) 636-3309

81 MISSOURI, Kansas City
(64101)
1212 W. 8th Street
(816) 842-6830

82 MISSOURI, Lawson (64062)
624 No. Penn St., P.O. Box 281
(816) 296-3311

83 NEW YORK, Buffalo (14240)
52 Leslie Street
(716) 896-1111

84 NORTH CAROLINA, Charlotte
(28201)
1730 No. Tryon Street
P. O. Box 10603
(704) 333-0196

85 OREGON, Halsey (97348)
820 First Street
(503) 121-2247

86 OREGON, Harrisburg (97446)
5450 Bowers Road
(503) 995-6334

87 TENNESSEE, Knoxville
(37919)
P. O. Box 10062
(615) 588-2489

88 TEXAS, Garland (75041)
414 Ave. A, P.O. Box 218
(214) 276-6165

89 WASHINGTON, Moses Lake
(98837)
504 Commercial Street
(509) 765-6451

90 WASHINGTON, Quincy
(98848)
6th & East Division
(509) 787-2212

91 WASHINGTON, Sunnyside
(98944)
105 S. 11th Street, P.O. Box 538
(509) 837-4221

92 WASHINGTON, Touchet
(99360)
P. O. Box 106
(509) 394-2321

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(35976)
P. O. Box 581
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(712) 255-4270 | 113 OREGON, Harrisburg (97446)
5450 Bowers Road
(503) 995-6334 |
| 94 ARKANSAS, No. Little Rock
(72115)
403 Vine Street
(501) 374-0301 | 104 KANSAS, Hutchinson (67501)
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R. 1, Shedd
(503) 258-5820 |
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(72764)
120 Graham Street
(501) 751-4437 | 105 MISSISSIPPI, Columbus
(39702)
915 Second St. South
(601) 328-5010 | 115 OREGON, Shaw (97325)
R. 1, P.O. Box 468, Aumsville
(503) 364-8951 |
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P. O. Box 10737
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(814) 636-3309 | 116 TENNESSEE, Knoxville
(37919)
P. O. Box 10062
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(816) 842-6830 | 117 TEXAS, Garland (75041)
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(214) 276-6165 |
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908 Front Street
(208) 466-9218 | 108 MISSOURI, St. Joseph (64501)
710 So. Fourth Street
(816) 232-5478 | 118 UTAH, Delta (84624)
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(801) 034-5391 |
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202 Fourth Ave. South
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(98837)
504 Commercial Street
(509) 765-6451 |
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(618) 244-0127 | 110 NEW YORK, Buffalo (14240)
52 Leslie Street
(716) 896-1111 | 120 WASHINGTON, Quincy
(98848)
6th & East Division
(509) 787-2212 |
| 101 ILLINOIS, Princeton (61365)
R. R. 1, P.O. Box 170
(815) 872-1612 | 111 NORTH CAROLINA, Charlotte
(28201)
1730 No. Tryon Street
P. O. Box 10603
(704) 333-0196 | 121 WASHINGTON, Sunnyside
(98944)
105 S. 11th St., P. O. Box 538
(509) 837-4221 |
| 102 IOWA, Grinnell (50112)
829 Spring St., P.O. Box 148
(515) 236-5379 | 112 OREGON, Halsey (97348)
820 First Street
(503) 121-2247 | 122 WASHINGTON, Touchet
(99360)
P. O. Box 106
(509) 394-2321 |

PRODUCTS

Aluminum Sulfate

A white crystalline powder used in water treatment.

▲ 43

Ammonium Nitrate

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 100-pound multiwall paper bags and in bulk. Also available in industrial grades.

▲ 34 - 35 - 37 - 38 - 41 - 42 - 44 - 45 - 46 - 48
50 - 51 - 52 - 53 - 54 - 57 - 60 - 62

DAVISON CHEMICAL DIVISION

Ammonium Sulfate

Solid crystalline nitrogen fertilizer containing 21% nitrogen. Used as a direct fertilizer and in formulating mixed and blended fertilizers.

● 12
▲ 45

Anhydrous Ammonia

Liquefied gas, stored and shipped as a liquid at -28°F. under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail.

▲ 37 - 40 - 45

Aqua Ammonia

Water solution of ammonia for industrial use. Sold in tank wagon, tank truck or rail car lots.

▲ 43

Caustic Soda

The most important commercial caustic, in liquid, solid, granular and flake form for industrial use.

▲ 43

Chromic Acid

Red crystals, soluble in water and used in industrial processes. Available in flake and granular form.

▲ 43

DAV-GRO Water-Soluble Fertilizer

Concentrated water-soluble plant food containing the major plant elements plus lesser elements and minerals to provide a complete plant food. Provides instant feeding for vegetables, citrus trees, flowers, lawns, shrubs, vines and house plants.

● 20
▲ 34 - 38 - 39 - 40 - 42 - 44 - 45 - 46
51 - 52 - 53 - 54 - 55 - 57 - 60

Diammonium Phosphate, (DAP)

Basic ingredient used in blended fertilizers as well as for direct application. Available in two grades, 13-52-0 and 18-46-0.

● 1 - 12 - 30
▲ 33 - 41 - 45

Hydrochloric Acid, (18° Be 20° Be & 22° Be) Technical Grade
Clear, colorless or slightly yellow liquid. Used in a variety of industrial applications, including steel polishing.

▲ 43

Hydrofluosilicic Acid, (22-25%)

Transparent, slightly fuming liquid. Used as a source of fluoride for fluoridation of municipal water supplies; as a disinfectant for copper, brass and wooden vessels; as a bath in the electrolytic refining of lead and for service cleaning of aluminum.

● 1 - 8 - 11 - 12 - 22 - 26
▲ 41 - 43

Industrial Catalysts

RANEY nickel catalysts and metal alloy powders; auto and diesel exhaust catalysts and catalysts for alkylation, dehydrogenation, hydrogenation, oxidation, polymerization, dehydration and other reactions; custom-made catalysts utilizing as active agents all base- or precious-metal salts; catalyst supports including silica gel and high purity alumina.

● 8 - 21 - 27
▲ 31 - 41 - 50 - 61 - 64

LAWN SPRAY Fertilizer

A complete liquid fertilizer containing pesticides for direct lawn application. Available as a service only from authorized Grace Lawn Spray Service Centers.

● 8
▲ 41

Liquid Fertilizers

Complete fertilizers of various analyses containing all three basic plant nutrients (nitrogen, phosphorous, potash) in liquid form.

● 5
▲ 38

MAGAMP Fertilizer

A non-burning solid fertilizer, only slightly soluble in water, for nursery stock and fruit trees. Available in two formulations, 7-40-6 and 8-40-0.

● 24
▲ 41 plus nationwide network of distributors.

Mixed Fertilizers

Complete line of pulverized and granulated fertilizers containing all three basic plant nutrients in a variety of formulations. Available in multiwall paper bags and in bulk.

● 2 - 3 - 4 - 6 - 9 - 11 - 12 - 13 - 16 - 19
20 - 22 - 23 - 24 - 26 - 28 - 30 - 36
▲ 34 - 35 - 37 - 38 - 40 - 42 - 44 - 45 - 48
50 - 51 - 52 - 57 - 60 - 62 - 114 - 115

Molecular Sieves

Physical forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties.

● 8
▲ 41 - 43 - 61 - 63 - 64

Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for catalysts.

▲ 31 - 32 - 36 - 41 - 55 - 61 - 63 - 64

Nickel Sulfate

Crystalline water-soluble granules used in industrial processes, including textile printing and paint manufacturing.

▲ 43

Nitric Acid (38° Be 38° Be 39.5° Be 40° Be 42° Be) Technical Grade

Used primarily in the manufacture of ammonium nitrate for fertilizers and explosives.

▲ 43

Nitrogen Solutions

Variety of compositions based on combinations of ammonia, ammonium nitrate and urea in solution for direct soil application and for use in fertilizer manufacturing. Available in tank wagon, tank truck and rail car lots.

▲ 34 - 35 - 37 - 38 - 40 - 41 - 44 - 45
48 - 50 - 51 - 53 - 57 - 60 - 62

Nuclear Fuel Reprocessing/Transportation Services

Capability for reprocessing a variety of spent nuclear fuels, waste burial and fuel transportation. Reprocessing performed at West Valley, N. Y.

Nuclear Materials

More than fifty uranium, plutonium and thorium products for nuclear and non-nuclear applications. Used primarily as fuel material for nuclear reactors. Also capacity for unirradiated scrap recovery at Erwin, Tenn. (Detailed list on p. 17.)

● 67
▲ 68 - 70

NURISH Fertilizer

Complete fertilizer containing high concentration of basic plant foods plus all necessary trace elements in a completely water soluble form for spray application. Used for lawn, garden and specialty crops.

● 20
▲ 41 - 53

Packaging Desiccants

A number of adsorbents in small bag sizes for military application, electrical and electronic devices, precision instruments and pharmaceutical products.

● 8 - 15
▲ 41 - 43

Pesticides

Includes insecticides, fungicides and herbicides used for the control of animal or plant pests. Insecticides are available in complete formulations of liquids, dusts, wettable powders and granules.

● 2 - 4 - 6 - 9 - 11 - 16 - 24
▲ 34 - 35 - 37 - 38 - 39 - 40 - 42 - 43
44 - 45 - 46 - 48 - 49 - 50 - 51 - 52
53 - 54 - 57 - 60 - 63 - 66 - 67 - 68
69 - 111 - 112 - 118 - 119 - 120 - 121 - 122

Petroleum Catalysts

Fluid cracking catalysts, including High Alumina (25%) for high activity and selectivity and Low Alumina (13%) for medium-range operations; Semi-Synthetic, a lower activity clay-included catalyst for low conversion operations; SM-30 (silica magnesia), an extremely active catalyst for the production of maximum yields of gasoline and light cycle oil; Zeolite catalysts, new ultra-stable high-activity catalysts more selective with regard to coke and gasoline than any other catalyst yet discovered.

● 7 - 8 - 21 - 29
▲ 31 - 32 - 36 - 41 - 55 - 61 - 63 - 64

Phosphate Rock

Used in phosphoric acid production and as a basic ingredient in mixed fertilizer materials. Available as screened material for electric furnaces.

● 1
▲ 33 - 41

Phosphoric Acid (75, 80, & 85%) Furnace Grade

Inorganic acid used in industrial applications such as aluminum brightdipping.

▲ 43

Phosphoric Acid (52-54%) Wet Process

Inorganic acid used in the manufacture of high analysis dry fertilizer, slurry fertilizer and liquid fertilizer.

● 1 - 12 - 30
▲ 33 - 41 - 45 - 65

Rare Earths and Thorium Chemicals

Available in both technical and high purity grades for industrial applications such as glass polishing, carbon-arc electrodes, ceramics, metallurgical additives, gas mantles and nuclear systems.

● 14 - 25
▲ 47 - 58

Seeds

Legume, pasture and turf grass seeds; hybrid grain and forage sorghums; hybrid Sudan grass and vegetable seeds. Used for silage or fodder (bundle feed). Popcorn also available.

● 71 - 72 - 73 - 74 - 75 - 76 - 77
78 - 79 - 80 - 81 - 83 - 84 - 85
87 - 88 - 89 - 90 - 91 - 92
▲ 93 - 94 - 95 - 96 - 97 - 98 - 99
100 - 101 - 102 - 103 - 104 - 105 - 106
107 - 108 - 109 - 110 - 111 - 112 - 113
116 - 117 - 118 - 119 - 120 - 121 - 122

Seed Treating Equipment and Chemicals

- 75
- ▲ 93 - 94 - 95 - 96 - 97 - 98 - 99 - 100
- 101 - 102 - 103 - 104 - 105 - 106 - 107 - 108
- 109 - 111 - 112 - 116 - 117 - 119 - 120 - 121 - 122

Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Used as a selective adsorbent for gases and liquids, as a catalyst support, and as a desiccant for dehydration of various substances.

- 8
- ▲ 32 - 42 - 43 - 64 - 67

Silicofluorides

Ammonium, magnesium and zinc silicofluoride compounds are used in a variety of industrial applications, including laundry soaps, moth-proofing agents, concrete hardeners and disinfectants.

- 8
- ▲ 41

Soda Ash

A grayish-white powder available in both light and dense grades, soluble in water but insoluble in alcohol. Used in the manufacture of glass, ceramics, soap and detergents.

- ▲ 43

STABIFIX Silica Gel Beer Stabilizer

A finely divided amorphous silica gel for clarification and stabilization of beer through the removal of specific protein fractions.

- 8
- ▲ 41

START-RITE Fertilizer

A completely water soluble, high analysis plant food used as a starter solution in transplanting all types of plants. It dissolves instantly and is especially formulated to promote healthy, early growth.

- 20
- ▲ 34 - 38 - 39 - 40 - 42 - 44 - 45 - 46
- 51 - 52 - 53 - 54 - 55 - 57 - 62

Sulfuric Acid (Grades from 80° Be to 25% Oleum)

Inorganic acid used in the manufacture of ammonium sulfate, superphosphate, phosphoric acid, mixed fertilizers and in many other industrial processes.

- 1 - 8 - 9 - 10 - 12 - 24 - 28
- ▲ 33 - 34 - 41 - 43 - 45 - 62

Superphosphate, Single (20% A.P.A.)*

Basic ingredient used in mixed fertilizer formulation and in direct fertilizer application.

- 6 - 8 - 11 - 12 - 22 - 24 - 26 - 28
- ▲ 33 - 34 - 35 - 40 - 41 - 42 - 44 - 45
- 50 - 51 - 53 - 57 - 60 - 62

Superphosphate, Triple (46% A.P.A.)*

Basic ingredient for direct fertilizer application and for many mixed and blended fertilizer formulations.

- 1 - 12
- ▲ 33 - 34 - 35 - 37 - 38 - 39 - 40 - 41 - 42 - 44
- 45 - 49 - 52 - 53 - 54 - 55 - 57 - 60 - 64

SYLODEX 353

An inorganic thickener for the preparation of thixotropic general purpose polyester and epoxy resins; also a thickener for sealants, trowelling paints and sound deadeners.

- 21
- ▲ 41

SYLOID Micron-Sized Silicas

White, amorphous, silica gel powders used for flattening and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and reproduction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals. Available in a variety of high purity and surface-treated grades.

- 8
- ▲ 41, primarily sold by distributors located throughout the continental United States, Canada and Mexico.

Urea

White, solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds and in crystalline form for industrial use.

- ▲ 34 - 35 - 37 - 38 - 39 - 40 - 41 - 43 - 44 - 45
- 46 - 49 - 50 - 51 - 53 - 54 - 57 - 60 - 62

*Available Phosphoric Acid

Manufactures and markets a broad line of industrial chemical specialties, including container sealing compounds, construction and building maintenance materials, organic chemicals, polymer-fiber materials, chelating agents and vermiculite products.

Headquarters Office

62 Whittemore Avenue
Cambridge, Massachusetts 02140
(617) 876-1400

CONSTRUCTION MATERIALS

Specialty products for construction and building maintenance.

● **Plants**

UNITED STATES

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(90022)
7237 East Gage Avenue
(213) 927-1461

2 CALIFORNIA, San Francisco
(94107)
550 Third Street
(415) GA 1-2937

3 CALIFORNIA, San Leandro
(94577)
2140 Davis Street
(415) LO 8-3427

4 ILLINOIS, Chicago (60638)
6050 West 51st Street
(312) 767-3223

5 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 586-2627

6 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 767-4282

7 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

8 NEW JERSEY, North Bergen
(07047)
2133 85th Street
(New Jersey) (201) UN 9-5220
(New York) (212) LO 4-1747

9 TEXAS, Houston (77001)
4323 Crites Street
(713) FA 3-8354

CANADA

10 ONTARIO, Scarborough
66 Hymus Road
(416) PL 9-4461

11 QUEBEC, Montreal, LaSalle
255 Lafleur Avenue
(514) 366-3070

▲ **Sales Offices**

UNITED STATES

12 CALIFORNIA, Los Angeles
(90022)
7237 East Gage Avenue
(213) 927-1461

13 CALIFORNIA, San Francisco
(94107)
550 Third Street
(415) GA 1-2937

14 CALIFORNIA, San Leandro
(94577)
2140 Davis Street
(415) LO 8-3427

15 COLORADO, Denver (80206)
2050 West 7th Avenue
(303) MA 3-8461

16 DISTRICT OF COLUMBIA
(Riverdale, Maryland) (20840)
6287 - 67th Court
(202) 338-6224

17 GEORGIA, Atlanta (30336)
5225 Philip Lee Drive
(404) 344-8622

18 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 586-2627

19 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 767-4282

20 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

21 MINNESOTA, St. Paul (55104)
1743 Selby Avenue
(612) 645-5309

▲ Sales Offices (continued)

22 NEW JERSEY, North Bergen
(07047)
2133 85th Street
(New Jersey) (201) UN 9-5220
(New York) (212) LO 4-1747

23 OHIO, Cincinnati (45243)
7023 Miami Avenue
(513) 561-5353

24 OREGON, Portland (97210)
3215 N.W. Yeon Avenue
(503) 222-4289

25 TEXAS, Houston (77001)
4323 Crites Street
(713) FA 8-8354

26 UTAH, Salt Lake City (84121)
1346 East 6860 South
(801) 255-8331

CANADA

27 ALBERTA, Calgary
701 Briggs Avenue, S.E.
(403) 273-2392

28 ALBERTA, Edmonton
14810 123rd Avenue
(403) 455-9161

29 BRITISH COLUMBIA,
Vancouver
1120 Hamilton Street
(604) MU 2-3158

30 MANITOBA, Winnipeg
205 Scott Street
(204) 452-6720

31 ONTARIO, Scarborough
66 Hymus Road
(416) PL 9-4461

32 QUEBEC, Montreal, LaSalle
255 Lafleur Avenue
(514) 366-3070

DAREX PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

● 3 - 4 - 5 - 7 - 11
▲ 12 - 13 - 15 - 16 - 17 - 18 - 20 - 21 - 22 - 23
24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32

A. C. HORN PRODUCTS

Adhesives and Bonding Agents

Resin, latex, and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

Floor Materials

Products to maintain, protect and repair masonry surfaces. Includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

Specialty Products

Architectural, construction, and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

Waterproofing and Roofing Materials

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

● 1 - 2 - 5 - 8 - 9 - 10
▲ 12 - 13 - 15 - 16 - 17 - 18 - 20 - 21 - 22 - 23
24 - 25 - 26 - 27 - 28 - 29 - 30 - 31 - 32

ROCK PRODUCTS CHEMICALS

Air Entraining Additives

Saponified tall oil, lignin and low alkali chemicals which produce controlled air entrainment characteristics in portland cement.

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack set tendencies in portland and other hydraulic cements.

Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- 3 - 4 - 7 - 11
- ▲ 14 - 20 - 31

SERVICISED PRODUCTS**Bridge Products**

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

Joint Sealing Compounds

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

Premolded Joint Fillers

Cork, asphalt, sponge rubber, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

Specialty Products

Form coatings and accessories, cures, hardeners and bonding agents for masonry construction and repair.

Waterstops

Rubber, PVC and neoprene waterstops, fittings and accessories.

- 6 - 8 - 10
- ▲ 12 - 13 - 19 - 22 - 24 - 27 - 29 - 30 - 31 - 32

CONTAINER AND CHEMICAL SPECIALTIES

Flowed-in gasketing compounds and high-speed application machinery for hermetically sealing rigid containers such as metal and composite cans, pails and drums and for bottle crowns, jar closures and industrial parts. Container coatings; meteorological balloons; medical and industrial gas absorbents.

● Plants**UNITED STATES**

- 33 CALIFORNIA, San Leandro**
(84577)
2140 Davis Street
(415) LO 8-3427

- 34 GEORGIA, Atlanta (30336)**
5225 Philip Lee Drive
(404) 344-8622

- 35 ILLINOIS, Chicago (60638)**
6050 West 51st Street
(312) GL 8-0340
(312) 767-3223

- 36 MASSACHUSETTS, Acton**
(01720)
50 Independence Road
(617) TW 7-2905

- 37 MASSACHUSETTS, Cambridge**
(02140)
62 Whittemore Avenue
(617) 876-1400

CANADA

- 38 QUEBEC, Montreal, La Salle**
255 Lafleur Avenue
(514) 366-3070

▲ Sales Offices**UNITED STATES**

- 39 CALIFORNIA, San Leandro**
(84577)
2140 Davis Street
(415) LO 8-3427

- 40 GEORGIA, Atlanta (30336)**
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- 41 ILLINOIS, Chicago (60638)**
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(312) GL 8-0340
(312) 767-3223

- 42 MASSACHUSETTS, Cambridge**
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62 Whittemore Avenue
(617) 876-1400

CANADA

- 43 ONTARIO, Oakville**
111 Dundas Street
(416) 745-5841

- 44 QUEBEC, Montreal, LaSalle**
255 Lafleur Avenue
(514) 366-3070

CONTAINER PRODUCTS**Aerosol Valve Cup Gasketing Compounds**

Flowed-in, solvent base sealing compounds vulcanized in place to form tough, resilient gaskets that hold high pressures and resist attack by aggressive solvents in the package. Available in 55-gallon drums.

- 35 - 36
- ▲ 38 through 44

Can Sealing Compounds

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary packs for food, oil, paints, solvents, and other general line products. Available in tank car, tank truck or 55-gallon drums.

- 33 through 38
- ▲ 38 through 44

Composite Can Cements

Hot-melt Cements: Used to cement inner liner fold-back and as a butt-joint filleting adhesive. Firmly anchors the structural plies and inner liner and fills the butt-joint with a pack-resistant impermeable barrier. Packaged in 55-gallon drums.

Waterbase Cements: High-strength, high-mileage, rapid-drying adhesives for laminating spiral can body plies, inner liner plies and label stock. Packaged in 55-gallon drums.

- 37
- ▲ 39 through 44

Composite Can Label Coating

Pigmented, polyvinylidene chloride, high-barrier coating for composite can label stock. Full range of colors, including metallic hues. Available in pails, drums or tank cars.

- 36
- ▲ 39 through 44

Composite Can Sealing Compounds

Flowed-in solvent-base compounds that form solid or cellular rubbery gaskets when air-dried or oven-dried. Prevent end seam wicking while insuring a hermetic end seal and increasing abuse resistance. Packaged in 55-gallon drums.

- 33 - 34 - 35 - 36 - 38
- ▲ 39 through 44

Compound Application and Drying Equipment

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts at speeds up to 800 units per minute.

- 37
- ▲ 39 through 44

Crown Sealing Compounds

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of beverage bottle closures. Particularly effective for sealing the new, easy-open bottle caps and crowns. Available in 55-gallon drums and Leverpaks.

- 33 - 35 - 37 - 38
- ▲ 39 through 44

DARACAN Inner Barrier System

Polyvinylidene chloride coatings for composite containers. High barrier coating imparts low MVTR, low gas transmission and greaseproof properties to fiber can stock, for packaging motor oil, frozen fruits and juices, paint, permanent anti-freeze, shortening and

many other products. System includes pre-coat and optional slip-coat.

- 36
- ▲ 39 through 44

Dispersing Solvents

Used for dispersing and for diluting solvent-base sealing compounds. Packaged in 55-gallon drums.

- 33 - 34 - 35 - 36 - 38
- ▲ 39 through 44

Drawing Emulsions and Drawing Lubricants

Used in sheet metal stamping operations to reduce wear on dies, reduce fracture of metal coatings and prevent excessive heat buildup. Packaged in 5-gallon pails and 15-gallon drums.

- 33 - 35 - 37 - 38
- ▲ 39 through 44

Flange Coatings

Solvent-base, waterbase or hot-melt compounds for coating flanges of composite cans. Coating functions as a contact adhesive, strengthens the end seam and seals flange cracks. Packaged in 55-gallon drums.

- 33 - 36 - 37
- ▲ 39 through 44

Flange-Coating Machinery

Equipment specifically designed to provide trouble-free, positive flange coating at commercial can line speeds.

- 37
- ▲ 39 through 44

Galvanizing Blanket Crystals

Inorganic chloride crystals used in galvanizing operations. Placed on the surface of molten zinc, crystals melt quickly and form a protective blanket, reducing formation of fumes, spattering of zinc and heat losses. Packaged in Leverpaks.

- 35 - 37
- ▲ 39 through 44

Industrial Gasketing Compounds

Solvent-base, waterbase, or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.). Packaged in 5-gallon pails.

- 36 - 37
- ▲ 39 through 44

Jar Cap and Lid Gasketing Compounds

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol types also available for certain processed, non-processed, and industrial packs. Packaged in 30-gallon drums.

- 33 - 35 - 36 - 37 - 38
- ▲ 39 through 44

Liquid Fluxes

Soldering fluxes which accelerate the wetting of metal by molten solder. Used for prefluxing or precleaning on can body makers and for hand soldering. Packaged in 5-gallon pails and 55-gallon drums.

- 33 - 37
- ▲ 39 through 44

Non-Web Compounds

Used to reduce web formation when sealing compounds are applied by the die-lining process. Packaged in 5-ounce jars and 5-gallon pails.

- 37
- ▲ 39 through 44

Organic Solders

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern. Packaged in 50-pound cartons and Leverpaks.

- 37
- ▲ 39 through 44

Pail and Drum Sealing Compounds

For end seams of industrial pails and drums, flowed-in waterbase or solvent base compounds that dry or cure into solid rubbery seals. For removable covers, flowed-in waterbase compounds that dry or cure into foamed microcellular gaskets. Packaged in 5-gallon pails and 15-gallon drums.

- 33 through 38
- ▲ 39 through 44

Seam Dopes

Used as a patching material for leaky containers and, under certain conditions, as an end sealant. Packaged in 5-gallon pails and 55-gallon drums.

- 33 - 36 - 37
- ▲ 39 through 44

Side Seam Cements

Used to seal side seams of metal containers and spiral seams of composite containers for packs, including

motor oils, frozen foods, frozen concentrates and dry foods. Packaged in 50-pound cartons and 140-pound Leverpaks.

- 37
- ▲ 39 through 44

Soldering Crystals

Used by can manufacturers to clean solder rolls on automatic can body makers. Packaged in Leverpaks.

- 33 - 34 - 35 - 37 - 38
- ▲ 39 through 44

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

- 37
- ▲ 39 through 44

Wetting Agents, CANSURFASS

Used to improve performance of waterbase sealing compounds under adverse conditions. Reduces surface tension and allows the compound to spread over oily plate surfaces. Packaged in 5-ounce jars and 5-gallon pails.

- 33 - 35 - 37 - 38
- ▲ 39 through 44

BALLOONS

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for the U. S. Armed Forces, government weather agencies, government and private research groups and private businesses. Packaged to specification.

Captive Balloons and KYTOON Kite-Balloons

Used wherever instruments must be held captive at altitudes under 2,500 feet to carry aerial cameras, emergency radio antennas, air sampling instruments for air pollution studies, survey targets for civil engineering, radio relays and display advertising.

Celling Balloons

Standard means of ascertaining cloud ceilings. Burst diameter 2 feet.

Constant Level Balloons

Equipped with automatic valve to stop ascent at a predetermined altitude between 40,000 and 80,000 feet. Inflated diameter up to 35 feet.

Pilot Balloons

Observed telescopically from the ground to determine direction and velocity of winds up to 45,000 feet. Burst diameter 7 feet.

Radar Reflective Balloons

Carry reflective aluminum dipoles inside the skin for accurate radar tracking. Burst diameters range from pilot balloon to sounding balloon size.

Sea Marker Balloons and Other Products

Small balloons floated on water as temporary buoys during tide water oil surveys and off-shore explorations. Balloon inflation kits and related products.

Sounding Balloons

Carry scientific instruments to 140,000 feet for weather forecasting and to gather cosmic ray, solar radiation, aurora, air glow and other data from the upper atmosphere. Burst diameter up to 60 feet.

● 37
▲ 42 - 43 - 44

ABSORBENTS AND CATALYSTS

Gas Absorbents

A mixture of hydrated lime, sodium hydroxide and

potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption. Available in 5-gallon pails, 1-gallon cans, Canister Paks and pre-filled plastic cartridges to fit absorbers.

● 37
▲ 38 - 42 - 44 and through distributors to the medical trade throughout the United States and in Canada.

Industrial Catalysts

Catalysts for certain manufacturing processes, such as industrial gas scrubbing, filter systems, etc.

● 37
▲ 38 - 42 - 44

ORGANIC CHEMICALS

Polyvinylidene chloride and styrene butadiene latices, vinyl acetate homopolymer and copolymer emulsions, dispersing agents, plasticizers, resins and specialty chemicals used in paints, paper coatings, adhesives, carpets, textiles, plastics, rubber and other applications.

● Plants

45 KENTUCKY, Owensboro
(42301)
Route 60 East, P. O. Box 61
(502) 683-1561

46 MASSACHUSETTS, Acton
(01720)
RFD #1, P. O. Box 263
(617) 897-2905

47 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

▲ Sales Offices

UNITED STATES

48 CALIFORNIA, San Leandro
(94577)
2140 Davis Street
(415) 568-3427

49 ILLINOIS, Chicago (60638)
6050 West 51st Street
(312) 767-3223

50 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

51 NEW JERSEY, Chatham
(07928)
323 Main Street
(201) 635-6280

CANADA

52 QUEBEC, Montreal,
LaSalle
255 Lafleur Avenue
(514) 366-3070

ORGANIC CHEMICALS PRODUCTS

DARAN Paper Coating Latices

Polyvinylidene chloride (saran) latex for high barrier packaging applications. Forms films which exhibit extreme barrier protection against water, water vapor, grease, oils and gases. Available in drums or in bulk.

● 45 - 46
▲ 48 through 52

DARATK Adhesive Emulsions

Polyvinyl acetate homopolymer emulsions for adhesives, surface coatings, primer sealers and textile and leather finishes. Available in drums or in bulk.

● 45 - 47
▲ 48 through 52

DAREX Carpet and Textile Latexes

Styrene butadiene latex for use in carpet and textile backings. Available in drums or in bulk.

- 45 - 46
- ▲ 48 through 52

DAREX Coating Emulsions

Styrene, vinyl acetate, and acrylic emulsions for coatings, saturating, mastics, industrial finishes and specialty products.

- 45 - 46 - 47
- ▲ 48 through 52

DAREX Copolymer Resins

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles, floor tiles, etc. Available in 50-pound bags.

- 46
- ▲ 48 through 52

DAREX Plasticizers

Dibutyl maleate and dibutyl fumarate. May be copolymerized with many monomers such as vinyl chlo-

ride, vinyl acetate, vinylidene chloride and styrene. Available in drums or in bulk.

- 46
- ▲ 48 through 52

DAREX 66L Pigment Binder

Ultra-micro-particle size polyvinyl acetate pigment binding agent for use in paper coatings. Available in drums or in bulk.

- 45 - 47
- ▲ 48 through 52

DAXAD Dispersing Agents

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, tanning and other industries. Available in 50-pound bags.

- 47
- ▲ 48 through 52

EVERFLEX Paint Emulsions

Vinyl acetate copolymers for emulsions, paints, paper coatings, acoustical tile coatings and specialty industrial finishes. Available in drums or in bulk.

- 45 - 47
- ▲ 48 through 52

POLYFIBRON

Saturating and other specialty papers; polymer-impregnated fiber bases for paper tapes, artificial leather, and book covers; offset and letterpress printing blankets; textile printing blankets and finishing equipment; battery plate separators and related products.

● Plants**UNITED STATES**

53 KENTUCKY, Owensboro
(42301)
Route 60 East
P. O. Box 61
(502) 683-1561

54 MASSACHUSETTS, Acton
(01720)
100 Independence Road
RFD-1, P. O. Box 263
(617) 897-8422

55 MASSACHUSETTS, Adams
(01220)
Harmony Street
(413) 743-0546

56 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

57 PENNSYLVANIA, Quakertown
(18951)
45 N. Fourth Street
(215) 536-4600

CANADA

58 QUEBEC, Montreal, LaSalle
255 Lafleur Avenue
(514) 366-3070

▲ Sales Offices**UNITED STATES**

59 CALIFORNIA, San Leandro
(94577)
2140 Davis Street
(415) 568-3427

60 ILLINOIS, Clarendon Hills
(60514)
402 Colfax Avenue
(312) 325-2079

61 MASSACHUSETTS, Cambridge
(02140)
62 Whittemore Avenue
(617) 876-1400

62 PENNSYLVANIA, Quakertown
(18951)
45 N. Fourth Street
(215) 536-4600

CANADA

63 QUEBEC, Montreal, LaSalle
255 Lafleur Avenue
(514) 366-3070

POLYFIBRON PRODUCTS

Battery Dry Charge Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

- 56
- ▲ 59 - 60 - 61 - 63

Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass-fiber mats attached for heavy duty usage. Packaged in corrugated cartons, approximately 2,000 per carton.

- 53 - 54 - 58
- ▲ 59 - 60 - 61 - 63

Coating Bases

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, handbags, jewelry boxes and portable radio cases. Available in a variety of grades, colors and widths and in thicknesses of .008 inch to .030 inch. Packaged in roll lengths of 200 to 500 yards.

- 55 - 58
- ▲ 61 - 63

Glass Fiber Mats

Distributed to the battery industry. Used between separators and plates in industrial storage batteries. Cut to size and packaged in cartons to customer specifications.

- ▲ 59 - 60 - 61

Letterpress Packing Blankets

Compressible polymer-fiber material surfaced with rubber. Used as packing on flatbed and rotary letterpress equipment. Available in six types and in sizes to fit all standard presses. Also cut to customer specifications. Packaged in tubes or flat cartons.

- 55
- ▲ 61

Offset Printing Blankets

A two-piece blanket, with a unique replaceable face of compressible polymer-fiber material surfaced with flexible rubber. Used on commercial offset presses and duplicators to transfer printed images from the impression cylinder to the paper stock. Available in all sizes to fit commercial presses and duplicators. Packaged in tubes or to customer specifications.

- 55
- ▲ 61

Printing Plate Compound

Thermosetting plastic material used for molding flatbed or rotary letterpress printing plates. Available in

a variety of formulations to produce hard plates for fine line printing—or soft plates for printing on boxboard and paperboard. Packaged in 5-gallon pails and 55-gallon drums.

- 55
- ▲ 61

Specialty Papers

Saturating papers and other low and medium density papers. Used as a base material for latex, phenolic, glue-glycerine and other impregnations. Latex beater-addition papers also available. Grades, basis weights, thickness, colors and widths vary with customer requirements. Packaged in rolls.

- 53
- ▲ 61

Tape and Specialty Backings

Latex-saturated paper backings for pressure-sensitive tapes, waterproof sandpaper and release liners. Available with barrier coats, release coats and bonding coats, singly or in combination. Grades, widths, roll lengths, colors and packaging to customer specifications.

- 57
- ▲ 62

Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

- 56
- ▲ 61

Textile Printing Blankets

Roller Printing Blankets: Wide, fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: Wide, fabric-and-rubber laminated, continuous, smooth-surfaced belts.

Lapping Blankets: Wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

- 55
- ▲ 61

Wetting Agents

Used by battery manufacturers to pre-wet plate separators in dry charge automotive storage batteries. Reduce surface tension and improve circulation of battery acid between the plates. Packaged in 5-gallon pails and 55-gallon drums.

- 53 - 54 - 58
- ▲ 59 - 60 - 61 - 63

ZONOLITE

Mines, processes and markets vermiculite and verxite; processes and markets perlite; manufactures and markets polystyrene foam board and related equipment; markets glass fiber insulation. Zonolite's major markets are building construction, agriculture and industry.

General Office

135 South LaSalle Street
Chicago, Illinois 60603
(312) CEntral 6-5885

Vermiculite Mines

Enoree (Traveler's Rest), South Carolina
Libby, Montana

● Plants

UNITED STATES

- | | | |
|--|---|--|
| <p>1 ALABAMA, Birmingham (35205)
2800 Fifth Avenue S.
(205) 323-3742</p> <p>2 ARKANSAS, No. Little Rock (72114)
P. O. Box 294
(501) 945-1678</p> <p>3 CALIFORNIA, Modesto (95353)
416 Hosner Street
(209) 529-6210</p> <p>4 FLORIDA, Boca Raton (33432)
Dura-Tech Division
1555 N.W. First Avenue
(305) 395-2424</p> <p>5 FLORIDA, Boca Raton (33432)
Industrial Blvd. P. O. Box 67
(305) 395-3103</p> <p>6 FLORIDA, Jacksonville (32202)
1530 East Adams Street
(305) 355-8431</p> <p>7 FLORIDA, Tampa (33605)
35th and 3rd Avenue
P. O. Box 5047 Ybor Station
(813) 248-1554</p> <p>8 GEORGIA, Atlanta (30306)
1167 Zonolite Place, N.E.
P. O. Box 8127, Station F
(404) 876-3681</p> <p>9 GEORGIA, Atlanta (30318)
Dura-Tech Division
520 Permalume Place, N.W.
(404) 355-4739</p> | <p>10 ILLINOIS, Chicago (60643)
12300 South Ashland Avenue
(312) FU 8-4385</p> <p>11 KENTUCKY, Wilders, Newport (41701)
112 North Street
(606) 291-3500</p> <p>12 LOUISIANA, New Orleans (70121)
P. O. Box 10262
(504) 834-5817</p> <p>13 MARYLAND, Baltimore (21230)
2315 Severn Street
(301) VE 7-8200</p> <p>14 MARYLAND, Beltsville (20705)
P. O. Box 347
(301) 474-8200</p> <p>15 MASSACHUSETTS, Easthampton (01027)
P. O. Box 112
(413) 527-1890</p> <p>16 MICHIGAN, Dearborn (48120)
14300 Henn Avenue
(313) 846-1010</p> <p>17 MISSOURI, Kansas City (64105)
515 Madison Street
(816) 842-0567</p> <p>18 MISSOURI, St. Louis (63110)
1705 Sulphur Avenue
(314) 645-8786</p> <p>19 MONTANA, Libby (59923)
P. O. Box 607
(406) 293-4131</p> | <p>20 NEW JERSEY, Trenton (08607)
336 Whitehead Road
P. O. Box 2124
(609) 587-2571</p> <p>21 NEW YORK, Weedsport (13166)
P. O. Box 310
(315) 834-5711</p> <p>22 NORTH CAROLINA, High Point (27260)
1701 Prospect St. Ext.
P. O. Box 1308
(919) 888-9978</p> <p>23 OHIO, Cleveland (44112)
1125 West 11th Street
(216) MAin 1-3517</p> <p>24 OKLAHOMA, Oklahoma City (73111)
201 North Eastern
P. O. Box 11402
(405) CE 2-2058</p> <p>25 PENNSYLVANIA, Ellwood City (16117)
12th St. & Factory Ave.
(412) 758-5548</p> <p>26 PENNSYLVANIA, New Castle (16102)
202 East Cherry Street
P. O. Box 1207
(412) 654-7721</p> <p>27 SOUTH CAROLINA, Enoree (29335)
(803) 495-3353</p> <p>28 WISCONSIN, Milwaukee (53208)
900 North 43rd Street
(414) 344-6667</p> |
|--|---|--|

● Plants (continued)

PUERTO RICO

- 29 Dewey and Almy
Inter-American Company,
Zonolite Division
Rio Piedras
State Road 176, Antigua Via,
Cupoy Baja Road

▲ Sales Offices

UNITED STATES

- 30 ALABAMA, Birmingham
(35205)
2800 Fifth Avenue S.
(205) 323-3742

- 31 ARKANSAS, No. Little Rock
(72114)
P. O. Box 294
(501) 945-1678

- 32 FLORIDA, Boca Raton (33432)
Dura-Tech Division
1555 N.W. First Avenue
(305) 395-2424

- 33 FLORIDA, Boca Raton (33432)
Industrial Blvd. P. O. Box 67
(305) 395-3103

- 34 FLORIDA, Jacksonville (32202)
1530 East Adams Street
(305) 355-8431

- 35 FLORIDA, Tampa (33605)
35th and 3rd Avenue
P. O. Box 5047 Ybor Station
(813) 248-1554

- 36 GEORGIA, Atlanta (30306)
1167 Zonolite Place, N.E.
P. O. Box 8127, Station F
(404) 876-3681

- 37 GEORGIA, Atlanta (30318)
Dura-Tech Division
520 Permalume Place, N.W.
(404) 355-4739

- 38 ILLINOIS, Chicago (60603)
135 South LaSalle Street
(312) CE 6-5885

- 39 ILLINOIS, Chicago (60643)
12300 South Ashland Avenue
(312) FU 8-4385

- 40 ILLINOIS, Skokie (60076)
8055 Lawndale Avenue
(312) 676-2850

- 41 KENTUCKY,
Wilders, Newport (41701)
112 North Street
(606) 291-3500

- 42 LOUISIANA, New Orleans
(70121)
P. O. Box 10262
(504) 834-5817

- 43 MARYLAND, Baltimore
(21230)
2315 Severn Street
(301) VE 7-8200

- 44 MARYLAND, Beltsville
(20705)
P. O. Box 347
(301) 474-8200

- 45 MASSACHUSETTS,
Easthampton (01027)
P. O. Box 112
(413) 527-1890

- 46 MICHIGAN, Dearborn (48120)
14300 Henn Avenue
(313) 846-1010

- 47 MISSOURI, Kansas City
(64105)
515 Madison Street
(816) 842-0567

- 48 MISSOURI, St. Louis (63110)
1705 Sulphur Avenue
(314) 645-8786

- 49 NEW JERSEY, Trenton (08607)
336 Whitehead Road
P. O. Box 2124
(609) 587-2570

- 50 NEW YORK, Weedsport
(13166)
P. O. Box 310
(315) 834-5711

- 51 NORTH CAROLINA,
High Point (27260)
1701 Prospect St. Ext.
P. O. Box 1306
(919) 888-9978

- 52 OHIO, Cleveland (44112)
1125 West 11th Street
(216) MAIN 1-3517

- 53 OKLAHOMA, Oklahoma City
(73111)
201 North Eastern,
P. O. Box 11402
(405) CE 2-2058

- 54 PENNSYLVANIA, Ellwood City
(16117)
12th St. & Factory Ave.
(412) 758-5548

- 55 PENNSYLVANIA, New Castle
(16102)
202 East Cherry Street
P. O. Box 1207
(412) 654-7721

- 56 SOUTH CAROLINA, Traveler's
Rest (29690)
P. O. Box 217
(803) 834-4144

PUERTO RICO

- 57 Dewey and Almy
Inter-American Company,
Zonolite Division
Santurce
P. O. Box 14066
Bo. Obrero Station

■ Processing Distributors' Plants

UNITED STATES

- 58 ARIZONA, Phoenix (85031)
Ari-Zonolite Company
4220 West Glenrosa
P. O. Box 14279
(602) 272-6663

- 59 CALIFORNIA, Los Angeles
(90041)
California Zonolite Co.
758 Colorado Boulevard
P. O. Box 41077
(213) 254-5193

- 60 CALIFORNIA, Newark (94560)
California Zonolite Co.
6851 Smith Avenue, P.O. Box 217
(415) 793-9111

- 61 CALIFORNIA, Sacramento
(95808)
California Zonolite Co.
208 Jibboom Street
P. O. Box 1732
(916) 442-7611

- 62 COLORADO, Denver (80223)
Western Mineral Products Co.
111 South Navajo Street
(303) 744-2746

- 63 HAWAII, Honolulu (96819)
Vermiculite Company of
Hawaii
842-A Mapunapuna Street
Tel. 895-105

- 64 KANSAS, Wichita (67214)**
Dodson Manufacturing Co.
1463 Barwise Avenue
(316) 267-0285
- 65 MINNESOTA, Minneapolis (55422)**
Western Mineral Products Co.
4725 Olson Highway
(612) 545-0481
- 66 MONTANA, Great Falls (59401)**
Robinson Insulation Co.
1226 North River Drive
P. O. Box 1419
(406) 453-1291
- 67 NEBRASKA, Omaha (68107)**
Western Mineral Products Co.
3520 "T" Street
(402) 731-3662
- 68 NEW MEXICO, Albuquerque (87107)**
Southwest Vermiculite Co.
5119 Edith Boulevard, N.E.
P. O. Box 6302
(505) 345-1633
- 69 NORTH DAKOTA, Minot (59401)**
Robinson Insulation Co.
826 Fourth Avenue, N.E.
P. O. Box 1782
(701) 24-191
- 70 OREGON, Portland (97227)**
Vermiculite Northwest Inc.
2303 North Harding Street
(503) AT 8-5195
- 71 TENNESSEE, Nashville (37206)**
Tennessee Zonolite Co.
2625 Powell Avenue
(615) 242-5496
- 72 TEXAS, Dallas (75222)**
Texas Vermiculite Company
2651 Manila Road, P.O. Box 6306
(214) ME 7-0900
- 73 TEXAS, Houston (77006)**
Vermiculite Products, Inc.
3025 Maxroy Street,
P. O. Box 7327
(713) 864-4487
- 74 TEXAS, Lubbock (79401)**
Southwest Vermiculite Co.
Route 3, Box 191-B
(806) PO 3-1945
- 75 TEXAS, San Antonio (78204)**
Texas Vermiculite Company
354 Blue Star
P. O. Box 9114, Guilbeau Station
(512) CA 3-5781
- 76 UTAH, Salt Lake City (84110)**
Vermiculite Intermountain, Inc.
333 West First South
P. O. Box 2398
(801) 328-0117
- 77 WASHINGTON, Seattle (98134)**
Vermiculite Northwest Inc.
2020 Airport Way South
(206) MAIN 4-5583
- 78 WASHINGTON, Spokane (99201)**
Vermiculite Northwest Inc.
North 1318 Maple Street
(509) FAirfax 5-2541
- 79 WISCONSIN, Milwaukee (53208)**
Western Mineral Products Co.
900 North 43rd Street
(414) DI 4-6667
- CANADA**
- 80 ALBERTA, Calgary**
Grant Industries, a division of
Eddy Match Company, Ltd.
4030 Eighth Street, S.E.
Box 69, Postal Station "A"
(403) 243-2741
- 81 ALBERTA, Edmonton**
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 174
(403) 424-5141
- 82 ALBERTA, Lethbridge**
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 1104
(403) 327-8568
- 83 BRITISH COLUMBIA, Vancouver**
Grant Industries, a division of
Eddy Match Company, Ltd.
476 Industrial Avenue
(604) 684-2267
- 84 BRITISH COLUMBIA, Vancouver**
Grant Industries, a division of
Eddy Match Company, Ltd.
1075 Melville Street
(604) 683-6831
- 85 MANITOBA, Winnipeg**
Grant Industries, a division of
Eddy Match Company, Ltd.
760 Wall Street
(204) 722-2561
- 86 ONTARIO, St. Thomas**
F. Hyde & Company, Ltd.
94 Woodworth Avenue
(519) ME 1-8790
- 87 ONTARIO, Toronto**
Grant Industries, a division of
Eddy Match Company, Ltd.
24 Coronet Road
(416) 239-8191
- 88 ONTARIO, Toronto**
F. Hyde & Company, Ltd.
3349-A Bloor Street West
(416) BE 3-1271
- 89 QUEBEC, Montreal**
F. Hyde & Company, Ltd.
2315 Cote de Liesse Road
(514) RI 8-6571
- 90 SASKATCHEWAN, Regina**
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 1213
(306) 569-3806
- 91 SASKATCHEWAN, Saskatoon**
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 1040
(306) 242-0274

PRODUCTS

Glass Fiber Insulation

Glass fiber insulating blankets with backing of kraft paper or of reflective aluminum. Insulation for walls, floors, attics and lofts. Sold in 200-400 sq. ft. rolls.

- Stocks at 20 distribution stations located throughout the United States.
- ▲ 30 - 31 - 33 - 34 - 35 - 36 - 38
- 39 - 41 - 42 - 43 - 44 - 45 - 46
- 47 - 48 - 49 - 50 - 51 - 52 - 54

Perlite

An inert, siliceous volcanic rock that expands when heated to produce a lightweight (3 to 12 lbs./cu. ft.) granular product. Variety of uses includes:

Building Construction: Aggregate for mixing with gypsum or portland cement for lightweight plaster, fireproofing and roof insulation; ingredient in acoustical tile.

Agriculture: Soil conditioner; seed starter; plant propagator.

Industrial Products: Filter aid; cryogenic insulation.

Perlite is available in multiwall paper bags.

- 8 - 11 - 13 and stocks at additional locations throughout the United States.
- ▲ 30 - 31 - 34 - 35 - 36 - 37 - 39 - 41 - 42 - 43
- 44 - 45 - 46 - 47 - 48 - 49 - 50 - 51 - 52 - 54

Polystyrene Molded Foam Board

Plain finish polystyrene molded foam board or laminated with paper or foil or with other decorative covering. Uses include: Insulation for walls, floors and building perimeters; thermal insulation for farm buildings and for metal buildings; insulation for walk-in coolers and freezers; insulation base for plaster; backer board for metal siding; flotation of docks, rafts and boats; shock absorber in packages; insulation and cushioning in industrial applications. Sold by the board foot in minimum quantities of 1,000 bd. ft.

- 2 - 3 - 4 - 9 - 12 - 13 - 15 - 18 - 23
- 26 - 28 and at additional locations throughout the United States.
- ▲ 30 - 31 - 32 - 33 - 34 - 35 - 36 - 37 - 38
- 39 - 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48
- 49 - 50 - 51 - 52 - 54 - 55 - 56

Polystyrene Molded Foam Board Manufacturing Equipment

Specialty molding and cutting equipment for the manufacture of polystyrene molded foam board.

- 4
- ▲ 32 - 38

Vermiculite

A micaceous mineral that expands when heated or subjected to specific chemical reactions to produce a dry, lightweight (4 to 12 lb./cu. ft.) granular product having high internal porosity and resilience. Produced in six particle sizes for a wide variety of uses, including:

Building Construction: Loose fill insulation for attics, lofts, wall spaces and insulating blocks; aggregates for use with gypsum in lightweight, fireproofing plaster; aggregates for use with portland cement in lightweight, fireproof concrete for floor, roof and roof deck insulation; acoustical coating for machine spraying to ceilings and other surfaces.

Agriculture, Home Gardening, and Outdoor Living: Anti-caking agent for high analysis farm fertilizer; chemical carrier for pesticides, herbicides, and plant nutrients; firebase for charcoal in outdoor grills; soil conditioner; mulch; seed starter; plant propagator.

Industrial Uses: Additive in fireproofing compounds; insulation of coke ovens; slow cooling of forgings; grease absorbent ingredient; packaging and shipping.

Vermiculite is available in multiwall paper bags and in bulk.

- 1 - 2 - 5 - 6 - 7 - 8 - 10 - 11
- 12 - 14 - 15 - 16 - 17 - 18 - 19 - 20
- 21 - 22 - 24 - 25 - 27 - 29
- ▲ 30 - 31 - 33 - 34 - 35 - 36 - 38 - 39
- 41 - 42 - 43 - 44 - 45 - 46 - 47 - 48
- 49 - 50 - 51 - 52 - 53 - 54 - 56 - 57
- Processing Distributors 58 through 91

Verxite

Exfoliated hydrobiotite. Carrier for animal feed supplements, nutrients and antibiotics. Bulking agent for animal feed. Available in 25-pound bags.

- 19 - 27
- ▲ 38 - 40 - 56

HAMPSHIRE CHEMICAL

Manufactures and markets amino acid chelating or sequestering agents and sarcosine surfactants.

General Office

Poisson Avenue
Nashua, New Hampshire 03060
(603) 883-7727

● Plant

1 NEW HAMPSHIRE, Nashua
(03060)
Poisson Avenue
(603) 883-7727

▲ Sales Office

2 NEW HAMPSHIRE, Nashua
(03060)
Poisson Avenue
(603) 883-7727

PRODUCTS

Chelating Agents

Chemical compounds used to neutralize the undesirable effects of hard water metallic impurities in textile processing, soap and detergent manufacture and other chemical processes and as a scale formation preventative in industrial uses of water. Also used in stabilizing rubber latices, as a fertilizer additive and in a wide variety of specialty applications. Available in liquid form in drums and tank trucks and tank-cars, in powder form in 50-pound multiwall bags, or, upon request, in 125- or 200-pound fiber drums.

Includes EDTA (ethylenediaminetetraacetic acid), NTA (nitrilotriacetic acid) and other amino acid chelates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

Surfactants

Chemical compounds used in the manufacture of soaps, shampoos, dentifrices, shaving creams and other washing and cosmetic products to improve foaming, lathering and cleansing properties. Available in drums and in tank trucks and tank cars.

Includes sarcosine surfactants and sarcosinates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

Manufactures and markets a wide variety of chemical cleaning compounds for industrial, institutional, transportation and food processing applications.

Headquarters Office

634 Broadway
Cincinnati, Ohio 45202
(513) 421-5100

● Plants**UNITED STATES**

- 1 CALIFORNIA, City of Industry**
(Los Angeles) (91746)
Don Julian Rd. & 9th Ave.
(213) 330-3351
- 2 NEW JERSEY, East Rutherford**
(07073)
Union Ave. and DuBois Street
(201) 933-2300
- 3 OHIO, Cincinnati (45202)**
1120 West Front Street
(Chemicals)
(513) 421-5100
- 4 OHIO, Cincinnati (45202)**
1020 Mound Street (Equipment)
(513) 421-5100
- 5 TEXAS, Dallas (75216)**
8770 South Central Expressway
(214) 376-6491

CANADA

- 6 ONTARIO, Weston (Toronto)**
64 Kenhar Drive
P.O. Box 68
(416) 749-0720

▲ Sales Offices**UNITED STATES**

- 7 ALABAMA, Birmingham**
(35201)
2 Findley Ave., West
(205) 251-0247
- 8 CALIFORNIA, City of Industry**
(Los Angeles) (91746)
Don Julian Rd. & 9th Ave.
(213) 330-3351
- 9 CALIFORNIA, San Francisco**
(94124)
1920 Army Street
(415) 647-3938
- 10 COLORADO, Denver (80217)**
2500 West 5th Ave.
(303) 623-3221
- 11 DISTRICT OF COLUMBIA,**
Washington (20018)
910 Brentwood Rd., NE
(202) 529-2535
- 12 FLORIDA, Miami (33147)**
1350 NW 74th Street
(305) 754-7297
- 13 GEORGIA, Atlanta (30312)**
550 Glenn Street, SW
(404) PL 3-2149
- 14 ILLINOIS, Chicago (60614)**
1735 North Larrabee Street
(312) 944-2440
- 15 LOUISIANA, New Orleans**
(70117)
2800 Chartres Ave.
(504) 947-3330
- 16 MARYLAND, Baltimore**
(21224)
20-25 Eastern Ave.
(301) 467-7400
- 17 MASSACHUSETTS, Boston**
(Somerville) (02143)
37-49 Medford Street
(617) 227-8042
- 18 MICHIGAN, Detroit (48207)**
1900 East Jefferson
(313) 567-2600
- 19 MINNESOTA, Minneapolis**
(55401)
334 North First Street
(612) 333-1281
- 20 MISSOURI, Kansas City (64116)**
127 West 10th Ave.
(816) 421-4327

- 21 MISSOURI, St. Louis**
(63116)
3660 Gravois Ave.
(314) 664-5244
 - 22 NEW YORK, Buffalo**
(Cheektowaga) (14240)
2769 Broadway
(516) 896-3398
 - 23 NEW YORK, New York**
(orders)
(212) 925-3901
 - 24 NORTH CAROLINA,**
Greensboro (27405)
801 Warehouse Street
(919) 273-0533
 - 25 OHIO, Cleveland (44113)**
1300 West 9th Street
(216) 781-6406
 - 26 PENNSYLVANIA, Philadelphia**
(Pennsauken, N. J.) (08101)
37th and River Road
(215) WA 5-4388
 - 27 PENNSYLVANIA, Pittsburgh**
(15222)
1320 Penn Ave.
(412) 261-4000
 - 28 TENNESSEE, Memphis**
(38117)
4730 Poplar Avenue
(901) 682-3400
 - 29 TEXAS, Houston (77001)**
1006 Washington Ave.
(713) 227-8803
 - 30 WASHINGTON, Seattle**
(98134)
3623 6th Ave., South
(206) 622-5533
 - 31 WISCONSIN, Milwaukee**
(53204)
531 South Water Street
(414) 276-3512
- CANADA**
- 32 ONTARIO, Weston (Toronto)**
64 Kenhar Drive
P. O. Box 68
(416) 749-0720

PRODUCTS

DISHWASHING AND KITCHEN SANITATION

Machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of special products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

Pre-Soaking

Powders for cleaning silverware and stainless steel, plastic and china surfaces.

Machine Ware Washing

A wide selection of powders and liquids for use in all water conditions, for all types of ware in automatic or semiautomatic operations.

Dispensing and Control Systems

Electronic systems for automatic and semiautomatic compound dispensing.

Rinsing

Liquid rinse-dry agents and dispensing system for fast, spot-free drying.

Manual Dishwashing

A variety of detergents specially designed for varying water conditions and soil loads, with a faucet dispensing system.

Pot and Pan Washing

Compounds for pot and pan washing—both machine and manual.

Kitchen Housekeeping

Complete line of products for equipment maintenance and for cleaning walls, floors and other items.

- 1 through 6
- ▲ 7 through 32

FLOOR TREATMENT MATERIALS FOR INSTITUTIONS AND INDUSTRY

A complete line of floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces.

Cleaning

A family of compounds for wax stripping and cleaning all types of floors.

Sanitizing

Liquid germicidal disinfectants.

Sealing

Multi-purpose, fast-drying floor sealers.

Waxing and Finishing

A variety of self-polishing waxes and finishes.

- 1 through 6
- ▲ 7 through 32

FOOD MANUFACTURING — PROCESSING

Specialized processing and maintenance products for use throughout all phases of food processing.

Baking Industry

Production cleaning and plant maintenance products and dispensing equipment for pans, doughnut fryers, ovens, racks, utensils and other production equipment. Cleaners for floors and walls throughout the bakery.

Beverage and Brewing Industries

Chain conveyor lubricants and automatic dispensing equipment for single and multi-unit bottle lines; wide range of synthetic lubricants for all water and plant conditions. Production cleaning and plant maintenance products for use throughout the brewery: tanks, wort coolers, hoses and lines, filters, pasteurizers, kegs, labelers, etc. Plant maintenance products for all phases of soft drink manufacturing.

Canning and Frozen Food Industry

Compounds for washing and peeling fruits and vegetables. Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, pasteurizers, heaters, vacuum pans, peeling and husking machinery, flumes, dehydrating equipment, blenders, filling and sealing equipment, glass containers. Cleaners and bacteria control agents for floors and walls throughout the canning and frozen food processing plant.

Dairy Industry

Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, bottles, cans, hot and cold lines and other equipment. Also, sanitizing products and cleaners for floors and walls throughout the dairy.

Meat Processing Industry

Production cleaning and plant maintenance products and dispensing equipment for smoke houses, hot soaker tanks, spray washers, molds, hooks and trolleys.

Potato Chip Industry

Production cleaning and plant maintenance products and dispensing equipment for chip fryers, peelers, slicers, washers, conveyors and cans. Cleaners for floors and walls throughout the potato chip processing plant.

Poultry Processing Industry

Production equipment, plant maintenance products, and dispensers for scald tanks, pickers, pan chillers, cookers, washers, scalders, singers, eviscerating troughs, vacuum units. Specialized products for sanitizing and for mineral and protein film removal. Cleaners for floors and walls throughout the poultry processing plant.

- 1 through 6
- ▲ 7 through 32

METAL-WORKING AND OTHER INDUSTRIAL MANUFACTURING

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper mill production cleaning, rubber processing anti-adhesives and production cleaning for rubber manufacturing plants.

Cleaning

Compounds for steam cleaning, heated spray washing, heated and cold immersion tank cleaning and manual cleaning of industrial parts and equipment.

Cleaning Prior to Electroplating

Products for electrolytic cleaning and heated immersion soak cleaning of a variety of metal parts.

Phosphatizing

A family of compounds for manual iron phosphatizing and for spray and immersion phosphatizing of zinc and iron parts.

Rust Inhibiting

Compounds for use in spray washers, immersion tanks and manual operations.

Etchants for Aluminum

Compounds for etching in spray washers or immersion tanks and for brightening after etching.

Barrel Finishing

A powdered compound for burnishing and brightening.

Paint Spray Booth Maintenance

Products for conditioning water, for purging and for masking and stripping dry areas.

Paint Stripping

A variety of products for hot and cold immersion stripping, cold spray or brush stripping and for steam injection and steam machine work.

Dispensing and Control Equipment

For spraying cleaning solutions; for cleaning tank interiors; for concentration control, automatic proportioning and automatic feeding.

Industrial Housekeeping

Compounds for a variety of housekeeping jobs including cleaning electric motors, manual cleaning of machinery and equipment, purging phosphate stages of spray washers or tanks, descaling rinse stages of spray washers or tanks, removing scale from shower room walls and cleaning rest room fixtures.

Paper Mill Products

A completely automated felt cleaning system for metering alkaline and/or acid cleaners onto felts during paper processing operations, cleaners for all felt problems and cleaning products for equipment maintenance throughout the processing plant.

Petroleum Refinery and Petrochemical Plant Cleaning

Plant maintenance cleaners for emulsion, floor and steam cleaning; process equipment cleaning

for columns and towers, heat exchangers, water jackets on compressors and pumps, air coolers, storage tank interior and exterior cleaning; equipment for dispensing cleaners and controlling compound use.

Rubber Processing

Anti-adhesives, lubricants, separants, slab and sheet dips, mold cleaners, steam cleaners, rubber bonding agents.

Water Treatment Chemicals

A wide line of scale and corrosion control products for boilers, cooling systems and towers.

Cutting Fluids

A full line of water soluble cutting and grinding fluids for use by the metal-working industry.

● 1 through 6

▲ 7 through 32

TRANSPORTATION

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

Vehicle Washing

Complete line of cleaning compounds for steam cleaning, wheel washing, power washing, brush washing in car wash systems; medium and heavy duty exterior cleaners for manual washing.

Steam Cleaning

Powders and liquids for steam cleaning of vehicles and parts, designed for light to heavy soil loads.

Immersion Tank Cleaning

For heated and cold immersion tank cleaning of aluminum, steel, ferrous and non-ferrous metals, as well as internal combustion engine parts.

Solvents

Products for dissolving oil, grease and shop soils and for cleaning electrical motors and equipment.

Paint Spray Booth Maintenance

Products for masking, purging, water conditioning, dry and water wash booths.

Paint Stripping

Liquids and powders for use in all types of operations: heated immersion, cold immersion, cold spray, brush stripping and steam cleaning.

Dispensing and Control Equipment

Systems for automatic feeding and proportioning of solutions; equipment for cleaning over-the-road tank interiors.

Housekeeping

Products for manual cleaning of machinery and equipment, for descaling, for purging phosphate and for many specialized housekeeping problems.

● 1 through 6

▲ 7 through 32

DEARBORN CHEMICAL

Manufactures and markets industrial water treatment chemicals, maintenance and production coatings, pipeline coatings, wrappers and transportation cleaners.

General Office

Room 375
Merchandise Mart Plaza
Chicago, Illinois 60654
(312) 527-3273

● Plants

UNITED STATES

- 1 ILLINOIS, Lake Zurich (60047)
320 Genesee Street, P.O. Box 337
(312) 438-8241
- 2 MASSACHUSETTS, Boston
(02136)
50 Business Street
Hyde Park
(617) EM 1-2131

CANADA

- 3 ONTARIO, Toronto (9)
2454-2464 Dundas Street West
(416) 534-3546

ARGENTINA

- 4 Dearborn Chemical International Corp.
Balcarce 610
Buenos Aires
Tel. 33-1641

MEXICO

- 5 Productos Dearborn de Mexico
Plaza De Buenavista No. 2
Desp. 406
Mexico City
Tel. 47-3944

▲ Sales Offices

UNITED STATES

- 6 CALIFORNIA, San Mateo (94402)
(San Francisco)
2006 Pioneer Court
(415) 341-6597
- 7 GEORGIA, Atlanta (30305)
3133 Maple Drive, N.E.
(404) 261-8933
- 8 HAWAII, Honolulu (96814)
510 Piikoi Street, P.O. Box 2898
Tel. 564-941
- 9 ILLINOIS, Chicago (60654)
Room 375, Merchandise Mart
(312) 527-3273
- 10 ILLINOIS, Des Plaines (60016)
15 North Broadway
(312) 827-6102
- 11 MICHIGAN, Grosse Pointe Woods (48236)
20039 Mack Avenue
(313) 886-4710
- 12 NEBRASKA, Omaha (68114)
Swanson Building
8401 Dodge Street
(402) 391-7659
- 13 NEW JERSEY, Linden (07036)
1601 Linden Avenue East
P.O. Box 213
(201) WA 5-1435
- 14 OHIO, Cleveland (44116)
Westview Towers
21010 Center Ridge Road
(216) 333-4455

- 15 PENNSYLVANIA, Fort Washington
(Philadelphia) (19034)
520 Pennsylvania Avenue
(215) MI 6-8815
- 16 TEXAS, Richardson (Dallas)
(75080)
First Bank & Trust Bldg.
811 S. Central Expressway
(214) AD 5-4595

CANADA

- 17 ALBERTA, Calgary
2525 - 4th Avenue, N.W.
(403) 283-1656
- 18 ONTARIO, Toronto (9)
2454-2464 Dundas Street West
(416) 534-3546
- 19 QUEBEC, Montreal (28)
3333 Cavendish Boulevard
(514) 481-5641

ARGENTINA

- 20 Dearborn Chemical International Corp.
Balcarce 610
Buenos Aires
Tel. 33-1641

MEXICO

- 21 Productos Dearborn de Mexico
Plaza De Buenavista No. 2
Desp. 406
Mexico City
Tel. 47-3944

PUERTO RICO

- 22 Isla Verde (00913)
WD 35 Los Angeles
Tel. 791-2158

PRODUCTS

WATER TREATMENT

Biocides

Products to control bacterial slimes, molds and algae in industrial cooling water systems.

Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

Cooling Water Treatments

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

Return Line Treatments

Products designed to protect condensate return systems from corrosive attack by the use of filming and neutralizing amines.

Miscellaneous Products

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

● 1 - 3 - 4 - 5
▲ 6 through 22

PROTECTIVE COATINGS

Cleaners

Products for cleaning locomotive equipment and railroad passenger cars.

Maintenance Coatings

Products which provide corrosion protection for industrial equipment and structures including heat-resistant coatings.

Pipeline Coatings

Products based on epoxies and microcrystalline wax for pipeline protection, both internal and external.

Pipeline Wrappers

Custom fabrications including polyester film, fabric or asbestos impregnated and laminated with waxes and asphalts; for use in combination with DEARBORN Pipeline Coatings.

Production Coatings

For in-plant and shelf storage protection of metal parts and assemblies in the metal working industries.

● 1 - 2 - 3
▲ 6 through 20 - 22

VESTAL LABORATORIES

Manufactures and markets products for skin antiseptics and for environmental sanitation in hospitals, institutions, industry and agriculture; building maintenance cleaners, polishes, floor sealers and floor machines.

General Office

4963 Manchester Avenue
St. Louis, Missouri 63110
(314) 535-1810

● Plant

1 MISSOURI, St. Louis (63110)
4963 Manchester Avenue
(314) 535-1810

4 DISTRICT OF COLUMBIA,
Washington (20002)
50 Florida Ave., N.E.
(202) 462-1782

8 NEW JERSEY, Jersey City
(07306)
921 Bergen Ave.
(201) 656-9034

▲ Sales Offices

2 CALIFORNIA, Los Angeles
(90022)
2119 S. Atlantic Blvd.
(213) 288-1351

5 ILLINOIS, Chicago (60610)
2016 West Carroll
(312) 829-4756

9 TEXAS, Ft. Worth (76101)
706 T & P Terminal
Warehouse Bldg.
(817) 335-4894

3 CALIFORNIA, San Francisco
(94124)
1485 Bayshore Blvd.
(415) 587-3420

6 MICHIGAN, Detroit (48219)
20305 West 7 Mile Road
(313) 534-4334

7 MISSOURI, St. Louis (63110)
4963 Manchester Ave.
(314) 535-1810

PRODUCTS

Agricultural Products

For use in disinfection and cleaning of animal and poultry quarters, veterinary hospitals, zoos and animal research laboratories.

Health Industries Products

Antiseptic detergents for surgical scrubs and skin cleaning in hospitals, nursing homes and physicians' and dentists' offices.

Germicides and germicidal detergents for use in disinfecting and cleaning all areas in health institutions.

Creams for protecting and disinfecting the skin and for the control of dermatitis.

Surgical soap dispensers — foot operated, wall mount and portable units.

Industrial and Institutional Building Maintenance Products

Concentrated liquid cleaners for general purpose cleaning of floors, walls and fine surfaces.

Floor finishes, polishes and sealers for all types of floors.

Cleaning equipment including floor machines and accessories.

- 1
- ▲ 2 through 9

VERATEX

Manufactures and distributes disposable paper and plastic products for physician and dentist office use.

Plant and Sales Office

18610 Fitzpatrick
Detroit, Michigan 48228
(313) 838-0942

PRODUCTS

Absorbent Dental Rolls

Made from surgical cotton.

Dental Mercury

Refined for dental use.

Dental Tray Covers

Made from disposable paper.

Disposable Aprons

Embossed lightweight plastic in two styles. Completely impervious to liquids.

Disposable Cups

Plastic and paper cups for hot and cold liquids. Treated and untreated.

Draping Sheets

Absorbent, warm, strong, soft, with embossed texture. Also available with plastic film laminate for positive waterproofing.

Examination Gowns

Full length and waist length in embossed tissue.

Examination Table Paper Rolls

Water repellent, soft and strong.

Hand Towels

High wet-strength absorbent towels in dispenser box.

Plastic Examination Gloves

Clear plastic, individually folded examination gloves.

Professional Towels

For use as patient bibs; both paper and plastic-lined.

Manufactures and markets phthalic anhydride, sebacic acid, plasticizers, synthetic jet lubricants and lubricant-base stocks, polyester resins, supported and unsupported vinyl sheet and film, synthetic and natural waxes, industrial solvents and specialty organic chemicals.

Headquarters Office

King George Post Road
Fords, New Jersey 08863
(201) 826-6262

● Plant

1 NEW JERSEY, Fords (08863)
King George Post Road
(201) 826-6262

▲ Sales Offices

2 INDIANA, Fort Wayne (46801)
3805 Dalewood Drive
(219) 748-2796

4 NEW JERSEY, Fords (08863)
King George Post Road
(201) 826-6262

3 MASSACHUSETTS, Topsfield
(01983)
Parsonage Lane
(617) 887-5635

5 OHIO, Cuyahoga Falls (44221)
2916 Millboro Road
(216) 929-3351

ELM COATED FABRICS

Produces and supplies unsupported vinyl film and sheet for a number of consumer and industrial applications.

General Office

220 Stewart Avenue
Brooklyn, New York 11237
(212) HY 7-2230

● Plant

6 NEW YORK, Brooklyn (11237)
220 Stewart Avenue
(212) HY 7-2230

▲ Sales Office

7 NEW YORK, New York (10016)
261 Fifth Avenue
(212) MU 6-3311

HOWARDS & SONS (CANADA) LTD.

Manufactures and markets plasticizers, sorbitol and other organic chemical specialties.

General Office

Wallrich Avenue
Cornwall, Ontario
(613) 933-2200

● Plant

8 ONTARIO, Cornwall
Wallrich Avenue
(613) 933-2200

▲ Sales Offices

9 ONTARIO, Cornwall
Wallrich Avenue
(613) 933-2200

10 QUEBEC, Montreal
255 Lafleur Street
(514) 366-3362

MARCO CHEMICAL

Manufactures polyester resins. Cornelius Wax Refining Corp., a subsidiary, refines and manufactures natural and synthetic waxes.

General Office

1711 West Elizabeth Ave.
Linden, New Jersey 07036
(201) 925-6610

● Plants

11 NEW JERSEY, Edison (06840)
Edison Industrial Center
(201) 549-2000

12 NEW JERSEY, Linden (07036)
1711 W. Elizabeth Ave.
(201) 925-6610

13 OHIO, Swanton (43558)
413 E. Broadway
(419) 826-3010

▲ Sales Offices

14 CALIFORNIA, Balboa (92662)
122 Amethyst Street
(714) 673-0506

15 GEORGIA, Atlanta (30040)
3596 Oakcliff Road
(404) 875-9256

16 ILLINOIS, Chicago (60180)
100 Ash Street
Park Forest
(312) 233-0778

17 MASSACHUSETTS,
Marblehead (01945)
(617) 631-1325

18 NEW JERSEY, Linden (07036)
1711 W. Elizabeth Ave.
(201) 925-6610

19 NORTH CAROLINA,
Charlotte (28214)
2224 Toddville Road
(704) 399-6274

20 OHIO, Swanton (43558)
413 E. Broadway
(419) 826-3010

SOUTHBRIDGE PLASTICS

Produces printed, laminated and embossed vinyl sheeting.

General Office

1 Park Avenue
New York, New York 10016
(212) 889-5300

● Plants

21 MISSISSIPPI, Corinth (38834)
Golding Drive
(601) 287-1401

22 NEW JERSEY, Clifton (07012)
310 Allwood Road
(201) 773-1200

▲ Sales Offices

23 CALIFORNIA, Los Angeles
(90015)
1150 S. Hope Street
(213) RI 9-0145

24 ILLINOIS, Chicago (60611)
686 Lakeshore Drive
(312) 337-2047

25 ILLINOIS, Chicago (60620)
9146 S. Green Street
(312) 239-4300

26 NEW YORK, New York (10016)
1 Park Avenue
(212) 889-5300

27 NORTH CAROLINA,
High Point (27261)
1809 English Street
(919) 882-2222

28 TEXAS, Dallas (75207)
2430 Converse Street
(214) ME 1-0304

SOUTHERN RESIN AND SOLVENTS

Markets polyester resins and other materials used in fabricating reinforced plastics. Distributes a variety of industrial solvents and chemicals.

General Office

8700 N.W. 36th Avenue
Miami, Florida 33147
(305) 691-4321

● Plant

29 FLORIDA, Miami (33147)
8700 N.W. 36th Avenue
(305) 691-4321

▲ Sales Offices

30 FLORIDA, Miami (33147)
8700 N.W. 36th Avenue
(305) 691-4321

31 GEORGIA, Atlanta (30040)
3596 Oakcliff Road
(404) 451-4363

HATCO PRODUCTS

Acetone

A widely used industrial solvent. Available in bulk, 55-gallon drums and smaller containers.

▲ 30 - 31

Aircraft Cleaners

A variety of industrial solvents used in cleaning and maintaining aircraft. Available in bulk, 55-gallon drums and smaller containers.

▲ 30

Anti-Static Agent

Hatcol 1606 is an anti-static agent specifically developed for use in PVC-impregnated conveyor belts.

● 1
▲ 2 - 3 - 4 - 5

Beeswax

Available as crude or refined, both natural and synthetic, for use in arts and crafts, cosmetics, pharmaceuticals, candle manufacturing, printing and carbon paper, polishes, leather finishing, crayons and lead pencils. The entire line is available as 10- to 12-pound slabs or one-pound cakes packaged in multiwall cartons of approximately 55 pounds net.

● 11
▲ 15 through 20

Benzyl Chloride

A widely used chemical intermediate. Available in bulk and in 55-gallon drums.

● 1
▲ 2 - 3 - 4 - 5

Candelilla Wax

Available as crude or refined natural wax for use in polishes, chewing gum, candles and in coating castings.

● 11
▲ 15 through 20

Capryl Alcohol

Water-white liquid used as a solvent defoamer and chemical intermediate. Available in bulk or in drums.

● 1
▲ 2 - 3 - 4 - 5

Carnauba Wax

Available as crude or refined natural wax for use in pharmaceuticals, cosmetics, crayons and pencils, dental compounds, carbon papers, inks and finishes, mold release agents, and automotive, floor and shoe polishes. Available in lump, flake or pulverized form.

● 11
▲ 15 through 20

Ceresine Wax

A petroleum-based wax for chewing gum, cosmetics, crayons and pencils, dental compounds, lubricants and waterproofing applications.

● 11
▲ 15 through 20

Construction Materials

Decorative, rigid, vinyl films used as laminates on wood, metal, acoustical tile, "Masonite", floor tile and other substrates. Provide excellent scuff-resistance, cleanability and permanence as a barrier to water vapor. Available in rolls up to 72 inches wide.

● 6
▲ 7

Curing Agents, Polyester Resin

Methyl ethyl ketone peroxide, benzoyl peroxide and other polyester activators or hardeners.

▲ 15 - 30 - 31

Cyclohexyl Alcohol

Water-white liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

● 8
▲ 9 - 10

EMULSOWAX Synthetic Waxes

A series of waxes used as extenders or carnauba replacements in floor wax, leather finishes, shoe polishes and paper coatings.

● 11
▲ 15 through 20

Epoxidized Oils

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in bulk tank truck and rail tank car lots and in 55-gallon drums.

● 1
▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Ethyl Alcohol

A denatured solvent for industrial use. Available in bulk, 55-gallon drums and other standard packages.

▲ 30

Fatty Acids

Distilled and crude vegetable fatty acids used for soaps, esters and detergents. Available in 400-pound drums and bulk tank truck and rail tank car lots.

● 1
▲ 2 - 3 - 4 - 5

Fibrous Glass

Fibrous glass reinforcements for polyester and other resins. Available as woven roving, mat, and woven fabrics in varying weights and dimensions.

▲ 15 - 30 - 31

Fumaric Acid

White crystalline material used in the preparation of polyesters, plasticizers, alkyd resins and ester gums. Available in 50-pound multiwall bags.

▲ 2 - 3 - 4 - 5

Gel-Coats

Specialty polyester resins used to impart surface properties of color, scuff, and chemical resistance. Used widely in manufacturing boats and other items where superior surface characteristics and appearance are desired. Available in 55-gallon drums and 5-gallon pails.

● 12 - 13 - 29
▲ 14 - 15 - 16 - 17 - 18 - 19 - 20 - 30 - 31

Humectants

Products, such as sorbitol, which maintain a desired moisture content despite broad humidity fluctuations. Sorbitol is used in toothpastes, in tobacco, and in jams, jellies and other confectionery products.

● 8
▲ 9 - 10

Insecticide Base Oils

Petroleum and other base stocks for use in the formulation of insecticides and pesticides. Available in bulk, 55-gallon drums and smaller containers.

▲ 30

Isopropyl Alcohol

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

▲ 30

Japan Wax

A wax-like fat used in lead pencils, textiles, cosmetics, cordage and laundry finishes. Available as a crude or refined product.

● 11
▲ 15 - 16 - 17 - 18 - 19 - 20

Jet Engine Lubricants

Lubricant and lubricant-base stocks which meet military and commercial requirements for jet turbine engine lubricant; based on high purity organic esters.

● 1
▲ 4

Maleic Anhydride

A chemical intermediate used in the manufacture of alkyds, polyesters, plasticizers, ester gums and other materials. Available in molten form in bulk tank wagon or tank truck, or as white flaked solid in 50-pound multiwall bags.

▲ 2 - 3 - 4 - 5

Methyl Alcohol

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

▲ 30

Methylcyclohexyl Alcohol

Colorless organic liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

- 8
- ▲ 9 - 10

Methyl Ethyl Ketone

Solvent for lacquers and rubber and plastic coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 30

Methyl Isobutyl Ketone

Solvent for nitrocellulose and other surface coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 30

Mineral Spirits

Organic liquid solvents used widely in paint and varnishes. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 30

Mold Release Agents

Industrial waxes and other parting agents used in polyester molding operations.

- ▲ 15 - 16 - 17 - 18 - 19 - 20 - 30 - 31

Montan Wax

A mineral wax extracted from lignite, used in carbon paper, insulation, polishes and other applications. Available in natural state and bleached forms.

- 11
- ▲ 15 through 20

Myristyl-ethyl Alcohol

A blend of fatty alcohols, HATCOL MC finds use as an intermediate for quaternaries and tanning agents. Available in bulk and in 55-gallon drums.

- 1
- ▲ 2 - 3 - 4 - 5

Ouricury Wax

Available as a crude or refined natural wax, used extensively in carbon paper manufacture, crayons and pencils, inks and printing, lubricants, leather finishes and polishes.

- 11
- ▲ 15 through 20

Ozokerite

A petroleum-based wax for carbon paper, cosmetics, crayons and pencils, insulating applications, paper coating, and automotive, floor and shoe polishes.

- 11
- ▲ 15 through 20

Paint Chemicals

Industrial solvents and chemicals used in manufacturing paints, lacquers and thinners. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 29

Phthalic Anhydride

A widely used intermediate for plasticizers, polyesters, alkyds, dyestuffs and pharmaceuticals. Available as a molten liquid in bulk tank trucks and rail tank cars and as white flaked solid in 80-pound multiwall bags.

- 1
- ▲ 2 - 3 - 4 - 5 - 9 - 10

Plasticizers**Adipates**

The adipates are primary plasticizers used with a wide variety of resins. Excellent permanence and low temperature properties are imparted to adipate-plasticized polyvinyl chloride compounds. In addition, plastisols prepared with adipates give exceptionally low initial and stable long-term viscosities. Adipates have good heat and light stability and impart a soft drape to vinyl film. Available in 55 gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 8
- ▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Epoxyes

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in 55 gallon drums and in bulk tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Esters, Aliphatic

The caprylate-caprate and di-caprate esters are compatible with a wide range of resins. Used as plasticizers for natural and synthetic rubber, they impart excellent low temperature properties to these materials. Available in 55 gallon drums and in bulk tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5 - 30

Plasticizers (continued)

Fumarates

The fumarates are monomeric in nature and are used for copolymerization with such monomers as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water based paints, paper coatings, etc. Available in 55 gallon drums and in bulk tank truck and rail tank car lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Isophthalates

The isophthalate esters, used in vinyl compounds, lend outstanding durability to nitrocellulose-lacquered surfaces. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Maleates

The maleates are monomeric in nature and are used for copolymerization with monomers such as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water-based paints and paper coatings. Available in 55-gallon drums and in bulk tank truck and rail tank car.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Phthalates

A wide range of primary phthalate plasticizers are available. Dimethyl and diethyl phthalates are used in adhesives and in plasticizing cellulose acetate. Di-isobutyl, dibutyl and dicyclohexyl phthalates are used in adhesives, lacquers, emulsions, heat sealing paper coatings and in cellophane. Di-isohexyl, butyl benzyl, butyl octyl and butyl decyl are fast fluxing and high solvating vinyl chloride plasticizers. The octyl and decyl phthalates are the general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. N-octyl-decyl, 610 and 810 phthalates as vinyl plasticizers provide good low-temperature flexibility. Isodecyl, tri-decyl and di-tri-decyl phthalates find wide acceptance in high temperature wire compounds. Specialty phthalate plasticizers are offered for specific end use requirements. Available in 55-gallon drums and in bulk tank car and tank wagon lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Plasticizers, Low Temperature

Functional plasticizers imparting a specific end-result in vinyl and other resin formulations. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Plasticizers, Polymeric

The polymeric plasticizers are specialty products providing permanence and oil- and hexane-resistance in finished compounds.

● 1

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Plasticizers, Secondary

Secondary plasticizers are used in vinyl formulations as low cost extenders of the primary type. Often they impart specially desired end use properties. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Plasticizers, Semi-Polymeric

These products provide a range of properties to various resin formulations between those obtained with the primaries and the higher priced true polymeric. Available in 55-gallon drums and in tank truck and rail tank car lots.

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▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Plasticizers, Specialty

Plasticizers, e.g. glyceryl triacetate, HATCOL 332, HATCOL 334, for specialized end use applications with natural, synthetic, and chlorinated rubbers and with cellulose and other natural and synthetic resins. Available in 55-gallon drums and in tank truck and rail tank car lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Sebacates

The sebacates are primary plasticizers used with a variety of resins. The octyl sebacates are excellent low temperature vinyl plasticizers and synthetic lubricants. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

● 1 - 8

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Trimellitates

Trimellitates find wide application in formulating high temperature vinyl wire compounds and are available in 55-gallon drums and in bulk tank truck and rail tank car lots.

● 1

▲ 2 - 3 - 4 - 5 - 9 - 10 - 30

Polyester Resins

With glass fiber reinforcement, the polyesters find wide application in the automotive, marine, construction and related industries. Application properties and resistance to impact and chemical attack can be varied to specific requirements. Available in 55-gallon drums, 5-gallon pails and in bulk tank truck lots.

- 12 - 13
- ▲ 14 - 15 - 16 - 17 - 18 - 19 - 20 - 30 - 31

Polyesters, Fire Retardant

Specialty polyester formulations which retard combustion when exposed to open flame. Available in 55-gallon drums, in 5-gallon pails and in bulk tank truck lots.

- 12 - 13
- ▲ 14 - 15 - 16 - 17 - 18 - 19 - 20 - 30 - 31

Polyglycols

Sorbitol for use in toothpaste, pharmaceuticals, cosmetics, confectioneries and other food products. Available in both crystallizing and non-crystallizing grades.

- 8
- ▲ 9 - 10

Polymerized Fatty Acids

Polymerized vegetable fatty acids are used in demulsifiers and inhibitors. Available in 400-pound drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5

Polyurethane Foam

Equipment and materials for manufacturing polyurethane foam in place. Principally used in insulating and caulking new home construction and marine application for flotation purposes.

- ▲ 30 - 31

Rigid PVC Lubricant

HATCOL 340 Rigid PVC Lubricant is used in the fabrication of rigid PVC products such as calendered sheet, extruded pipe, electrical conduit and molded fittings and housings.

- 1
- ▲ 2 - 3 - 4 - 5

Rigid Vinyl Films

Decorative rigid and semi-rigid vinyl films used as laminates on a variety of substrates for construction materials* and other applications.

- 6
- ▲ 7

*See additional product listing under "Construction Materials", page 57.

Sebacic Acid, C-10 Acid

Solid, prilled sebacic acid is used in cosmetics, nylon 6-10 and in low temperature plasticizers. Both CP and purified grades are available in 50-pound multiwall bags.

- 1
- ▲ 2 - 3 - 4 - 5

Solvents

A wide range of aromatic and aliphatic solvents. These find wide use in paint and lacquer thinners, as metal degreasers, and as dry-cleaning solvents. Available in 55-gallon drums, smaller containers and bulk tank truck lots.

- ▲ 30

Synthetic Waxes

A wide range of petroleum-based and other synthetic waxes. Specialty blends and natural wax substitutes for every purpose.

- 11
- ▲ 15 through 20

Vinyl Film and Sheet

Both supported and unsupported vinyl film and sheet are used as furniture covering, vinyl flooring, roofing, mattress covers, window shades, auto seat covers, shower curtains and outerwear. Materials are styled to consumer requirements and produced in rolls up to 72 inches wide.

- 6 - 21 - 22
- ▲ 7 - 23 - 24 - 25 - 26 - 27 - 28

Vinyl Film, Supported

Rolls, up to 72 inches wide, of flexible vinyl film laminated to cotton, nylon and other materials to form a reinforced decorative vinyl fabric used in furniture covering, luggage, auto seat covers and juvenile products.

- 21 - 22
- ▲ 23 - 24 - 25 - 26 - 27 - 28

Vinyl Film, Unsupported

Rolls, up to 72 inches wide, of flexible and rigid vinyl films, which are laminated to various substrates for use as construction material, window shade fabric, shower curtains and other consumer products. An excellent vehicle for styling through embossing and printing.

- 6
- ▲ 7

Manufactures, distributes and markets products for agriculture and industry. Agricultural products include fertilizers of various types and formulations; livestock and poultry feeds and supplements; insecticides, herbicides, fungicides and defoliant. Operates more than 400 Grace Greentown retail farm service centers. Products for industry include urea, ammonia, hydrogen and carbon dioxide.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● Plants
UNITED STATES

- | | | |
|---|---|---|
| <p>1 ILLINOIS, Dimmick (61301)
Rt. 2, LaSalle
(815) 224-1520</p> <p>2 ILLINOIS, Lovington (61937)
P. O. Box 277
(217) 873-4470</p> <p>3 ILLINOIS, Meredosia (62665)
P. O. Box 15
(217) 584-6281</p> <p>4 ILLINOIS, Monmouth (61462)
P. O. Box 405
(309) 734-5111</p> <p>5 ILLINOIS, Murphysboro (62966)
P. O. Box 444
(618) 684-2133</p> <p>6 INDIANA, Frichton (47591)
P. O. Box 183, Vincennes
(812) 726-2482</p> <p>7 INDIANA, Hillsboro (47949)
P. O. Box 74
(317) 798-3792</p> <p>8 KENTUCKY, Hopkinsville
(42240)
P. O. Box 507
(502) 886-1247</p> <p>9 MISSOURI, Malden (63863)
Airport Branch
(314) 276-4561</p> <p>10 MISSOURI, Slater (64349)
P.O. Box 218
Tel.-749</p> | <p>11 TENNESSEE, Memphis (38107)
P. O. Box 27147
(901) 357-2311</p> <p>12 TEXAS, Big Spring (79721)
P. O. Box 1311
(915) 264-5218</p> <p>13 TEXAS, Littlefield (79339)
P. O. Box 787
(806) 385-4459</p> <p>14 TEXAS, Lubbock (79401)
Route 3, P. O. Box 191
(806) 762-0691</p> <p>15 TEXAS, Odessa (79760)
P. O. Box 3761
(915) 337-1372</p> <p>16 TEXAS, Plainview (79073)
P. O. Box 1391
(806) 223-4713</p> | <p>20 ILLINOIS, Decatur (62526)
810 E. Pershing Road
(217) 877-7451</p> <p>21 MISSOURI, St. Louis (63105)
8230 Forsythe Avenue
(314) 727-1715</p> <p>22 TENNESSEE, Memphis (38103)
147 Jefferson Avenue
(901) 527-4541</p> <p>23 TEXAS, Amarillo (79109)
P. O. Box 7488
(806) 355-6551</p> <p>24 TEXAS, Dallas (75235)
3300 W. Mockingbird Lane
(214) 357-7026</p> <p>25 TEXAS, El Paso (79963)
P. O. Box 9218
(915) 532-5804</p> |
| | <p>PUERTO RICO</p> <p>17 Caribe Nitrogen Corporation
P.O. Box 32
Guanica
Tel. Guanica 821-3200</p> | <p>26 TEXAS, Littlefield (79339)
P. O. Box 787
(806) 385-4459</p> <p>27 TEXAS, Lubbock (79401)
Route 3, P. O. Box 191
(806) 762-0691</p> |
| | <p>TRINIDAD</p> <p>18 Federation Chemicals Limited
Point Lisas
c/o P.O. Box 952, Port-of-Spain
Tel. Couva 121</p> | <p>28 TEXAS, Plainview (79073)
P. O. Box 1781
(806) 224-6321</p> |
| | <p>▲ Sales Offices</p> <p>UNITED STATES</p> <p>19 ILLINOIS, Chicago (60601)
75 E. Wacker Drive
(312) 372-6424</p> | <p>PUERTO RICO</p> <p>29 Caribe Nitrogen Corporation
P. O. Box 14066, Bo. Obrero Sta.
Tel. Santurce 766-6020</p> <p>TRINIDAD</p> <p>30 Federation Chemicals Limited
Salvatori Bldg.
c/o P.O. Box 952, Port-of-Spain
Tel. Port-of-Spain 6252</p> |

PRODUCTS

Agricultural Surfactant - SWFSPREAD

A liquid, non-ionic wetting, penetrating and dispersing agent for use with agricultural and garden herbicides. Available in 1-, 5-, 30- and 55-gallon containers.

- 15
- ▲ 25 - 27

Ammonium Nitrate

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 50-, 80- and 100-pound multiwall paper bags and in bulk. Also available in industrial grade.

- ▲ 18 - 20 - 21 - 22 (Also at Grace Greentown retail outlets)

Ammonium Nitrate Limestone (Calcium Ammonium Nitrate)

Solid, prilled fertilizer containing 20.5% nitrogen as well as secondary plant food elements of calcium and magnesium. Available in 100-pound multiwall paper bags and in bulk.

- ▲ 29

Ammonium Sulfate

Solid, crystalline nitrogen fertilizer containing 21% nitrogen, used as a direct fertilizer and in formulating mixed fertilizers for use on sugar and other crops. Available in bulk and in 100-pound, 112-pound and 224-pound bags.

- 17 - 18
- ▲ 29 - 30

Anhydrous Ammonia

Liquefied gas, stored and shipped as a liquid at -28°F . under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail. Available in truck, rail car and ship cargo lots.

- 11 - 12 - 17 - 18
- ▲ 19 - 20 - 21 - 22 - 23 - 24 - 25 - 26 - 29 - 30
- (Also at Grace Greentown retail outlets)

Defoliant, Cotton - SWFDRY

A 42% concentrate of pentachlorophenol for use as desiccant on mature cotton or an herbicide base. Packaged in 5-, 30-, or 55-gallon drums.

- 14
- ▲ 27

Defoliant, Cotton - SWFDROP

A true cotton defoliant based on the leaf-dropping characteristics of sodium chlorate buffered against

flame hazard by blending with ammonium phosphate. Available in bulk or 55-gallon drums.

- 14
- ▲ 27

Industrial Gases

Carbon dioxide, hydrogen and nitrogen, by-products of the ammonia synthesis process. Carbon dioxide is sold for use in the manufacture of dry ice.

- 11
- ▲ 22

Liquid Fertilizers

Complete liquid fertilizers in several analyses containing various proportions of nitrogen, phosphate and potash.

- 13
- ▲ 22 - 26

Mixed Fertilizers

Mixed fertilizers are balanced, dry plant foods, either simple blends of individual nutrient materials (bulk blend fertilizers) or fertilizer materials permanently combined by chemical and physical processing (granular fertilizers). They are most effectively used where high concentrations of plant food nutrients are important, for example, as "starter" fertilizers used to band each side of the seed row at time of planting.

- 5
- ▲ 20 (Also at Grace Greentown retail outlets)

Nitrogen Solutions

Variety of compositions based on combinations of ammonia, ammonium nitrate and urea in solution for both direct soil application and for use in fertilizer manufacturing. Available in tank wagon, tank truck and rail car lots.

- ▲ 19 - 20 - 21 - 22 - 29

Pesticides

A line of herbicides, including a hydrocarbon base activating agent for use with weed oils, and a sodium arsenite base herbicide for industrial and agricultural grass and weed control. Available in 1-, 5-, 50-, and 55-gallon containers.

Also a complete line of agricultural insecticides, nematocides, and fungicides. Available as finely ground, highly dispersible dusts in multiwall 50-pound bags or as emulsifiable liquids in 5-, 30-, or 55-gallon drums.

- 15
- ▲ 24 - 25 - 27
- (Also at Grace Greentown retail outlets)

Slurry Fertilizers

Grace SLURRY-MIX fertilizers are balanced plant foods in semi-liquid form that are custom-spray-applied to the soil. A number of compositions are

available for specific soil and crop requirements. Slurry fertilizers are an innovation in commercial plant foods and show promise of delivering plant nutrients to the soil in a very economical manner.

- 1 - 2 - 3 - 4 - 5 - 6
7 - 8 - 9 - 10 - 16
- ▲ 29 - 23 - 28 (Also at Grace Greentown retail outlets)

Sulfur - SWFGOLD

Available as finely ground dusting, flaked, coarse-ground, or wettable powder for blending with insecticides, for direct application to the soil, or for blending with liquid and dry fertilizers. Delivered in bulk or 50-pound bags.

- 15
- ▲ 25 - 27

Sulfuric Acid (98%)

Inorganic acid used in the manufacture of ammonium sulfate, superphosphate fertilizers and other organic acids, as well as many other industrial processes.

- 17 - 18
- ▲ 29 - 30

Urea

White, solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds and in crystalline form for industrial use. Available in multiwall paper bags and in bulk.

- 11 - 18
- ▲ 19 - 21 - 22 - 29 - 30 (Also at Grace Greentown retail outlets)

Urea Solutions

Urea-ammonia liquors of various compositions used in manufacture of mixed fertilizers. Available in tank cars and tank trucks.

- 11
- ▲ 19 - 21 - 22

Grace Greentown Products

Family of agricultural products manufactured and marketed through retail service centers. Additional information on products and locations available on request.

CAROLINA NITROGEN CORPORATION

Manufactures and markets nitrogen fertilizers for the southeastern United States.

General Office

Wachovia Bank & Trust Building
Wilmington, North Carolina 28402
(919) 763-0171

● Plant

1 NORTH CAROLINA,
Wilmington (28402)
2 miles North on Hwy. 421
(919) 763-0176

▲ Sales Office

2 NORTH CAROLINA,
Wilmington (28402)
Wachovia Bank & Trust Building
(919) 763-0171

PRODUCTS

Ammonium Nitrate

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 50-, 80- and 100-pound multiwall paper bags and in bulk. Also available in industrial grade.

- 1
- ▲ 2 (Also at Grace Greentown retail outlets)

Ammonium Nitrate Limestone (Calcium Ammonium Nitrate)

Solid, prilled fertilizer containing 20.5% nitrogen as well as the secondary plant food elements calcium and magnesium. Available in 100-pound multiwall paper bags and in bulk.

- 1
- ▲ 2

Ammonium Sulfate

Solid crystalline nitrogen fertilizer containing 21% nitrogen, used as a direct fertilizer and in formulating mixed fertilizers for use on sugar and other crops. Available in bulk and in 100-pound, 112-pound and 220-pound bags.

▲ 2

Anhydrous Ammonia

Liquefied gas, stored and shipped as a liquid at -28°F. under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail. Available in truck, rail car, and ship cargo lots.

▲ 2 (Also at Grace Greentown retail outlets)

Aqua Ammonia

Water solution of ammonia occasionally used as a fertilizer material. Sold in tank wagon, tank truck or rail car lots.

● 1
▲ 2

Nitrogen Solutions

Variety of compositions based on combinations of ammonia, ammonium nitrate and urea in solution for both direct soil application and for use in fertilizer manufacturing. Available in tank wagon, tank truck and rail car lots.

● 1
▲ 2

Urea

White solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds and in crystalline form for industrial use. Available in multiwall paper bags and in bulk.

▲ 2 (Also at Grace Greentown retail outlets)

Urea Solutions

Urea-ammonia liquors of various compositions used in manufacture of mixed fertilizers. Available in tank cars and tank trucks.

● 1
▲ 2

WALNUT GROVE PRODUCTS

Manufactures and markets a variety of animal feeds, feed supplements and premixes, GRACE GREENTOWN fertilizers and other agricultural products.

General Office

201 Linn Street
Atlantic, Iowa 50022
(712) 243-1030

● Plants

1 IOWA, Atlantic (50022)
201 Linn Street
(712) 243-1030

2 IOWA, Cherokee (51012)
Box 442
(712) CA 5-5166

3 IOWA, Fonda (50540)
Box D
Tel. 6051

4 IOWA, Independence (50844)
Box 367
(319) DE 4-2505

5 IOWA, Shell Rock (50670)
Box 10
(319) 885-6207

6 IOWA, West Liberty (52776)
Box 77
(319) MA 7-2121

7 INDIANA, Edinburg (46124)
Shelby Ave. & Center Cross St.
(812) 526-5507

8 NEBRASKA, Elkhorn (68022)
91 E. Railroad Ave.
(402) 289-2514

9 NORTH DAKOTA, Devils Lake
(58301)
Box 890
(701) 662-4071

10 NORTH DAKOTA, Spiritwood
(Jamestown) (58481)
(701) TEMple 6-8211

▲ Sales Office

11 IOWA, Atlantic (50022)
201 Linn Street
(712) 243-1030

PRODUCTS

Ammonium Nitrate

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 80-pound and 50-pound multiwall paper bags and in bulk. Also available in Industrial Grade.

▲ 11 (Also at Grace Greentown retail outlets)

Anhydrous Ammonia

Liquefied gas, stored and shipped as a liquid at -28°F. under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail. Available in truck and rail car lots.

▲ 11

"4x4" Beef Feeds

Complete nutritional line of supplements and minerals for feed lot cattle and cow herds. Purposes of feed lot supplements are to produce optimum weight gain and best feed conversion at lowest cost. Line includes products which help control parasites and aid in the recovery of animals from various diseases.

Products for cow herds are aimed at promoting a high percentage of conception and live calf births, a stronger calf at birth and a heavier calf at weaning.

Processed in meal and pelleted form and wafers, sold in 50-pound paper bags and in bulk.

● 1 - 2 - 6 - 7 - 8

▲ 11 (Also at Grace Greentown retail outlets)

"4x4" Dairy Feeds

Full nutritional line of supplements, complete feeds and minerals for the entire life cycle of the dairy cow. Calf program is aimed at developing a strong, vigorous first-calf heifer at a minimum age. The cow program incorporates "lead feeding" to nutritionally stimulate the cow to produce milk to her maximum ability.

Processed in meal and pelleted form, sold in 50-pound paper bags.

● 1 - 2 - 6

▲ 11 (Also at Grace Greentown retail outlets)

"4x4" Poultry Feeds

A combination of complete feeds and supplements to develop a strong, vigorous pullet and, later, to promote top egg production at the best feed conversion rates.

A combination of complete feeds and supplements for turkeys—both breeder and commercial slaughter flocks. Breeder feeds are aimed at maximum health, high egg production, fertility and hatchability. Feeds for growing turkeys are aimed at maximum health,

fast growth, best feed conversion and economical gains.

Processed in meal or crumbles and sold in 50-pound paper bags.

● 1 - 2 - 6 - 7

▲ 11 (Also at Grace Greentown retail outlets)

Grain Screenings

Low-cost filler material for animal feeds.

● 9 - 10

▲ 11

Premixes

A complete line of vitamin, antibiotic, mineral and other additive premixes and super concentrates, made available through the Walnut Grove Industrial Division to feed companies that sell outside the "4x4" sales area.

● 1

▲ 11

Service Products

A variety of products made available to the farmer through Walnut Grove's direct sales, including such items as parasite and insect controls, dog and horse feeds and weather-proof feeding boxes.

● 1

▲ 11 (Also at Grace Greentown retail outlets)

"4x4" Sheep Feeds

Complete nutritional line of supplements and minerals for feeder lambs. Improves the growth rate and feed efficiency while offering protection from several costly sheep diseases.

Processed in meal or pelleted form and sold in 50-pound paper bags.

● 1 - 2 - 6 - 7

▲ 11 (Also at Grace Greentown retail outlets)

"4x4" Swine Feeds

Complete nutritional line for each phase of the life cycle of swine, including supplements, complete feeds and minerals for all classes of swine. Products enable the farmer to incorporate modern swine nutrition practices into feeding programs to increase rate of gain, counteract problems from parasites and diseases, and help reduce the overall cost of producing pork.

Processed in meal or pelleted form and sold in 50-pound paper bags or bulk.

● 1 - 2 - 4 - 6 - 7 - 8

▲ 11 (Also at Grace Greentown retail outlets)

Manufactures and markets a broad line of chemical products in Europe, the United Kingdom, Africa, Asia and the Pacific Area.

Product lines include those of other divisions of W. R. GRACE & CO. such as: CRYOVAC flexible packaging materials and equipment; DAREX container sealing compounds and application equipment; DARAK and ARMORIB battery separators; DAREX, HORN and SERVICISED construction materials; DAREX chemical specialties; DAREX organic chemicals; DAVISON desiccants and adsorbents; DEARBORN water treatment chemicals; DuBOIS cleaning compounds; and fabricated plastic articles.

Also included in the product lines, as detailed below, are a broad range of adhesives, sealers, coatings and maintenance products for the automotive and construction industries; a line of industrial tapes, calendered vinyl plastic products; and superphosphate fertilizers.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● Plants

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- 1 W. R. Grace Australia Pty. Ltd.
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Tel. 35-0231
- 2 W. R. Grace Australia Pty. Ltd.
86 Old Pittwater Road
Brookvale, Sydney, N.S.W.
Tel. 93-0431-2
- 3 Cresco Fertilizers Limited
110 Nth Terrace
Adelaide, S.A.
Tel. 51-3061
- 4 Cresco Fertilizers Limited
38 Fenwick Street
Geelong, Victoria
Tel. 9-81-51
- 5 Cresco Fertilizers Limited
Boundary Road
Wallaroo, S.A.
Tel. 120 and 148
- 6 Cresco Fertilizers Limited
Verran Terrace
Port Lincoln, S.A.
Tel. 965

- 7 Josh Abrahams & Son Pty. Ltd.
Main Plant: 24 Ricketty Street
Mascot, N.S.W.
Sub. Plant: 96 St. Davids Street
Fitzroy, Victoria
Mail: Box 2806 G.P.O.
Sydney, N.S.W.
Tel. 67-4446

- 8 Josh Abrahams & Son Pty. Ltd.
1283 Kingsford Smith Drive
Eagle Farm, Brisbane,
Queensland
Tel. 60-4115

- 9 Josh Abrahams & Son Pty. Ltd.
69 Leadenhall Street
Port Adelaide
South Australia
Tel. 4-1036

- 10 Omicron Proprietary Limited
Bulla Road
Airport West, Victoria
Tel. 379-6443

FRANCE

- 11 Grace S.A.R.L.
Epernon (Eure et Loir)
Tel. 817 a Rambouillet
(Eure et Loir)

GERMANY

- 12 Adretta-Werke Weber
and Badow G.m.b.H.
Hamburg-Bahrenfeld
Gasstrasse 4, Postfach 11629
Tel. Sammel-Nr 89-68-31
- 13 Grace G.m.b.H.
Friedrichsgabe
Post Harksheide, Bezirk
Hamburg
Mail: P.O. Box 7-10
Hamburg
Tel. (0411) 527271
- 14 Grace G.m.b.H.
638 Bad Homburg V.d. Höhe
Postfach 251
Tel. 23068
- 15 Pillnay-Lacke Darex
G.m.b.H. & Co.
Brühler Strasse 2-20
53 Bonn (Rhein)
Mail: P.O. Box 7-10
Hamburg, Germany
Tel. Bonn 663031-2
- 16 Teroson-Werke G.m.b.H.
Chemische Fabrik
Hans-Bunte Strasse 4
6900 Heidelberg 1
Mail: P. O. Box 1720
6900 Heidelberg 1
Tel. (06221) 73221

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- 18 Grace Italiana S.p.A.
Via Mugnano 7
Melito di Napoli
Tel. 33.64.61-2-3
- 19 Industrie Chimiche Boston S.p.A.
Via Quattro Novembre
Bollate (Milan), Italy
Tel. 902-3491

JAPAN

- 20 W. R. Grace Kabushiki Kaisha
Kaneda, Atsugi-SHI
Kanagawa-Ken

NEW ZEALAND

- 21 W. R. Grace (N.Z.) Limited
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- 23 Grace Española, S.A.
Carreta de Cornella a Gava
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Barcelona
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Barcelona
Tel. 231.70.13

UNITED KINGDOM

- 24 W. R. Grace Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 25 W. R. Grace Limited
Flexible Packaging Division
Cromwell Gardens
St. Neots, Huntingdonshire
Tel. St. Neots 680

- 26 Silica Gel Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 27 Serviced Limited
Slough Trading Estate
Slough, Bucks
Tel. Slough 26354
- 28 Honeywill-Dubois Ltd.
Devonshire House
Mayfair Place
Piccadilly
London, W. 1
Tel. Mayfair 8867

▲ Sales Offices

AUSTRALIA

- 29 W. R. Grace Australia Pty. Ltd.
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Tel. 93-0431-2
- 31 W. R. Grace Australia Pty. Ltd.
33-37 College Street
Gladesville, Sydney, N.S.W.
Tel. 89-4545
- 32 W. R. Grace Australia Pty. Ltd.
1283 Kingsford Smith Drive
Eagle Farm, Brisbane,
Queensland
Tel. 60-4588
- 33 W. R. Grace Australia Pty. Ltd.
177 Halifax Street
Adelaide, South Australia
Tel. 23-1639
- 34 W. R. Grace Australia Pty. Ltd.
134 Oats Street
Carlisle, Western Australia
Tel. 6-3225
- 35 Josh Abrahams & Son Pty. Ltd.
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Tel. 67-4446
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Queensland
Tel. 60-4115
- 37 Josh Abrahams & Son Pty. Ltd.
69 Leadenhall Street
Port Adelaide, South Australia
Tel. 4-1036

- 38 Omicron Proprietary Limited
Bulla Road
Airport West, Victoria
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Chemische Fabrik
Schlossgasse 19
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Vienna VIII/65
Tel. 420235 & 420136

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Copenhagen K
Tel. Minerva 1514 & 1681

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Paris 8e
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Tel. 46-29-84

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- 45 Grace G.m.b.H.
638 Bad Homburg V.d. Höhe
Postfach 251
Tel. 23068
- 46 Pillnay-Lacke Darex
G.m.b.H. & Co.
Bruhler Strasse 2-20
53 Bonn (Rhein)
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de Llobregat
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Tel. 231.70.13

SWITZERLAND

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Neugasse, 6
Zurich 5
Tel. 42-47-11

UNITED KINGDOM

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Elveden Road
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Tel. Elgar 6535
- 59 Silica Gel Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 60 Serviced Limited
2 Caxton Street
London S.W. 1
Tel. Sullivan 2632
- 61 Honeywill-Dubois Ltd.
Devonshire House
Mayfair Place
Piccadilly
London, W. 1
Tel. Mayfair 8867

DAREX CONTAINER AND CHEMICAL SPECIALTY PRODUCTS

DAREX flowed-in gasketing compounds and high-speed application machinery for hermetically sealing rigid containers such as metal cans, pails and drums, bottle crowns, jar closures and industrial parts; also container coatings, meteorological balloons, medical and industrial gas absorbents.

CONTAINER PRODUCTS

Aerosol Valve Cup Gasketing Compounds

Flowed-in, solvent-base, sealing compound vulcanized in place to form a tough, resilient gasket that holds high pressures and resists attack by aggressive solvents in the package.

● 1 - 11 - 13 - 18 - 24
▲ 29 - 40 - 41 - 44 - 48 - 49 - 50
52 - 54 - 55 - 56 - 58

Can Sealing Compounds

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary foods, oil, paint, solvents and other general line products.

● 1 - 11 - 13 - 18 - 20 - 21 - 22 - 23 - 24
▲ 29 - 40 - 41 - 44 - 48 - 49 - 50
52 - 54 - 55 - 56 - 58

Compound Application and Drying Equipment

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts.

- 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

Crown Sealing Compounds

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of bottled beverage closures. Particularly effective for sealing the new, easy-open bottle caps and crowns.

- 1 - 11 - 13 - 18 - 20 - 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

Industrial Gasketing Compounds

Solvent base, waterbase or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.).

Jar Cap and Lid Gasketing Compounds

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol-types also available for certain processed, non-processed and industrial packs.

- 1 - 11 - 13 - 18 - 20 - 21 - 23 - 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

Lacquers (Pillnay)

Container and closure lacquers, including gold and drawable lacquers, base coats, finishing, tube and special lacquers, solvents and machine cleaning agents.

- 15
- ▲ 40 - 41 - 44 - 46 - 50 - 56 - 58

Liquid Fluxes

Soldering fluxes which accelerate the wetting of metal by molten solder. Used for prefluxing or precleaning on can body makers and for hand soldering.

Non-Web Compounds

Used to reduce web formation when sealing compounds are applied by the die lining process.

Organic Solders

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern.

Pail and Drum Sealing Compounds

For end seams of industrial pails and drums; flowed-in waterbase or solvent base compounds that dry or cure into solid rubbery seals. For removable covers; flowed-in waterbase compounds that dry or cure into foamed microcellular gaskets.

Seam Dopes

Used as a patching material for leaky containers and, under certain conditions, as an end sealant.

Soldering Crystals

Used by can manufacturers to clean solder rolls on automatic can body makers.

- 1 - 11 - 13 - 18 - 20 - 21 - 22 - 23 - 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers.

- 11 - 13 - 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

Wetting Agents

Used to improve performance of waterbase sealing compounds under adverse conditions. Reduces surface tension and allows the compound to spread over oily plate surfaces.

- 1 - 11 - 13 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- ▲ 29 - 40 - 41 - 44 - 46 - 49 - 50
- 52 - 54 - 55 - 56 - 58

CHEMICAL SPECIALTIES**Adhesives**

Plastic adhesives, two-component epoxy adhesives, transparent cement, general multi-purpose adhesives and adhesive applicators.

Balloons

Neoprene latex, one-piece balloons. Primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packed to specification.

Captive Balloons and KYTOON Kite-Balloons

Used wherever instruments must be held captive at altitudes under 2,500 ft. (750 m.): to carry aerial

cameras, emergency radio antennas, air sampling instruments for air pollution studies, survey targets for civil engineering, radio relays, and display advertising.

Ceiling Balloons

Standard means of ascertaining cloud ceilings. Burst diameter 2 ft. (60 cm.).

Constant Level Balloons

Equipped with automatic valve to stop ascent at a predetermined altitude between 40,000 and 80,000 ft. (12,000 and 25,000 m.). Inflated diameter up to 35 ft. (1100 cm.).

Pilot Balloons

Observed telescopically from the ground to determine direction and velocity of winds up to 45,000 ft. (14,000 m.). Burst diameter 7 ft. (210 cm.).

Radar Reflective Balloons

Carry reflective aluminum dipoles inside the skin for accurate radar tracking. Diameters range from pilot balloon to sounding balloon size.

Sea Marker Balloons and Other Products

Small balloons floated on water as temporary buoys during tide water oil surveys and off-shore explorations. Balloon inflation kits available.

Sounding Balloons

Carry scientific instruments to 140,000 ft. (43,000 m.) for weather forecasting and to gather cosmic ray, solar radiation, aurora, air glow and other data from the upper atmosphere. Burst diameter up to 60 ft. (1,800 cm.).

▲ 29 - 30 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

Gas Absorbents

A mixture of hydrated lime, sodium hydroxide and potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption.

● 1 - 11
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

Industrial Catalysts

Catalysts for certain manufacturing processes, such as industrial gas scrubbing, filter systems, etc.

● 1 - 11
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

Sealers and Coatings

Gasket sealers, undercoatings, weather stripping and concrete sealers.

Shoe Products

Shoe adhesives, leather stains and polishes, leather dyes, pigments and shoe waxes.

Tapes

Reinforced strapping tapes, pressure sensitive masking tapes, cellophane tapes, electrical tapes, protective tapes and tape dispensers.

● 19
▲ 51

POLYFIBRON PRODUCTS

Saturating and other specialty papers; polymer-impregnated fiber bases for paper tapes, artificial leather and book covers; offset and letterpress printing blankets; textile printing blankets and finishing equipment; battery plate separators and related products.

Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass-fiber mats attached for heavy-duty usage.

● 13 - 17
▲ 40 - 41 - 44 - 48 - 49 - 50
52 - 54 - 55 - 56 - 58

Coating Bases

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, handbags, jewelry boxes, portable radio cases, etc. Available in a variety of grades, colors, widths and thicknesses.

Dry Charge Battery Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries.

Glass Fiber Mats

Distributed to the battery industry. Used between separators and plates in industrial storage batteries.

Letterpress Packing Blankets

Compressible polymer-fiber material surfaced with rubber. Used as packing on flatbed and rotary letterpress equipment. Available in sizes to fit all standard presses.

Offset Printing Blankets

A two-piece blanket, with a unique replaceable face of compressible polymer-fiber material surfaced with flexible rubber. Used on commercial offset presses and duplicators to transfer printed images from the impression cylinder to the paper stock.

Specialty Papers

Saturating papers and other low and medium density papers. Used as a base material for latex, phenolic, glue-glycerine and other impregnations. Latex beater-addition papers also available. Grades, basis weights, thickness, color and widths vary with customer requirements.

▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

Tape and Specialty Backings

Latex-saturated paper backings for pressure-sensitive tapes, waterproof sandpaper and release liners. Available with barrier coats, release coats, bonding coats, singly or in combination.

● 17
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and

custom-designed finishing equipment for wet processing of natural and synthetic fiber-based fabrics.

▲ 29 - 30 - 33 - 40 - 41 - 42 - 44 - 48
49 - 50 - 52 - 54 - 55 - 56 - 58

Textile Printing Blankets

Roller Printing Blankets: wide fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide fabric-and-rubber laminated continuous smooth-surfaced belts.

Lapping Blankets: wide continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

▲ 29 - 30 - 33 - 40 - 41 - 42 - 44 - 48
49 - 50 - 52 - 54 - 55 - 56 - 58

Wetting Agents

Used by battery manufacturers to pre-wet plate separators in dry charge automotive storage batteries. Reduce surface tension and improve circulation of battery acid between the plates.

▲ 40 - 41 - 44 - 48 - 49 - 50
52 - 54 - 55 - 56 - 58

CONSTRUCTION MATERIALS

Specialty products for construction and building maintenance.

DAREX PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/

cement ratios in concrete and mortar to increase compressive strengths.

● 2 - 11 - 13 - 17 - 20 - 21 - 22 - 23 - 24
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 60

A. C. HORN PRODUCTS

Adhesives and Bonding Agents

Resin, latex, and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

Floor Materials

Products to maintain, protect and repair masonry surfaces; includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

Specialty Products

Architectural, construction and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat and acid-resistant coatings and swimming pool coatings.

Waterproofing and Roofing Materials

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

- 2
- ▲ 29 - 30 - 33 - 40 - 41 - 44 - 47 - 48
- 49 - 50 - 52 - 54 - 55 - 56 - 58

ROCK PRODUCTS CHEMICALS**Air Entraining Additives**

Saponified tall oil, lignin and low alkali chemicals which produce controlled-air entrainment characteristics in portland cement.

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack set tendencies in portland and hydraulic cements.

Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- 2 - 11 - 13 - 17 - 20 - 21 - 22 - 23 - 24
- ▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
- 50 - 52 - 54 - 55 - 56 - 60

SERVICISED PRODUCTS**Bridge Products**

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

Joint Sealing Compounds

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

Premolded Joint Fillers

Cork, asphalt, sponge rubber, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

Specialty Products

Form coating and accessories, cures, hardeners and bonding agents for masonry construction and repair.

Waterstops

Rubber, PVC and neoprene waterstops, fittings and accessories.

- 27
- ▲ 60

DAVISON PRODUCTS

A line of industrial products, including catalysts, micron-sized silicas, molecular sieves, silica gel products and desiccants.

Industrial Catalysts

RANEY nickel catalysts and metal alloy powders; catalysts for alkylation, dehydrogenation, hydrogenation, oxidation, polymerization, dehydration and other reactions. Custom-made catalysts utilizing as active agents all base- or precious-metal salts.

- ▲ 40 - 45 - 50 - 54 - 55 - 56 - 59

Molecular Sieves

Physical forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties.

- 14
- ▲ 40 - 45 - 50 - 54 - 55 - 56 - 59

Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for a catalyst.

- ▲ 40 - 45 - 50 - 54 - 55 - 56 - 59

Packaging Desiccants

A number of adsorbents in small bag sizes for military application, electrical and electronic devices, precision instruments and pharmaceutical products.

- 14
- ▲ 40 - 45 - 50 - 54 - 55 - 56 - 59

Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Used as a selective adsorbent for gases and liquids and as a desiccant for dehydration of various substances.

● 14
▲ 40 - 44 - 45 - 49 - 50 - 54 - 55 - 56 - 59

SYLOID Micron-Sized Silicas

White, amorphous, silica gel powders used for flattening and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and repro-

duction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals.

● 14
▲ 45

Urea

White, solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds, and in crystalline form for industrial use.

▲ 41

DEARBORN PRODUCTS

Industrial water treatment chemicals.

Biocides

Products to control bacterial slimes, molds and algae in industrial cooling water systems.

Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

Cooling Water Treatments

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

Return Line Treatments

Products designed to protect condensate return systems from corrosive attack by use of filming and neutralizing amines.

Miscellaneous Products

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

● 11
▲ 41 - 44

DuBOIS PRODUCTS

Chemical cleaning compounds for industrial, institutional, transportation and food processing applications; pharmaceutical liquid hand soaps.

Dishwashing and Kitchen Sanitation

A wide selection of machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of specialty products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

Floor Treatment Materials for Institutions and Industry

Floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces.

Food Manufacturing - Processing

Specialized processing and maintenance products for use throughout all phases of food processing.

Metal-Working and Other Industrial Manufacturing

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper mill production cleaning, rubber processing anti-adhesives, and production cleaning for rubber manufacturing plants.

Transportation

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, and marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

● 11 - 28
▲ 41 - 44 - 53 - 61

(Additional DuBois product information on pages 49 and 50)

VESTAL LABORATORIES PRODUCTS

Liquid soaps for surgical, antiseptic, germicidal, disinfectant and deodorant requirements; skin creams for hand protection.

● 11 - 28
▲ 41 - 44 - 53

FLEXIBLE PACKAGING PRODUCTS

CRYOVAC bags, films, and equipment as well as additional packaging materials and equipment for the food industry and other uses.

SHRINKING BAGS AND CASINGS

CRYOVAC "S" bags for packaging smoked, cured and processed meats, cheese, poultry, and fresh red meat.

CRYOVAC "S" casings for packaging smoked, cured and processed meats.

- 1 - 11 - 13 - 17 - 20 - 21 - 22 - 23 - 25
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

SHRINKING FILMS

CRYOVAC "S" (Polyvinylidene Chloride) for packaging meat and cheese.

- 1 - 11 - 13 - 17
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

CRYOVAC "L" (Polyethylene) for packaging whole poultry, fruits, vegetables and bakery items.

- 11 - 13
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

CRYOVAC "XL" (Polyethylene) for packaging consumer portions of fresh meat and fish.

- 11 - 13
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

CRYOVAC "Y" (Polypropylene) for packaging phonograph albums, toys and general box overwrap. Also CRYOVAC YH, a perforated film for produce - both shrink and non-shrink applications.

- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

"VPM" (Polyvinyl Chloride) for produce packaging and multiple product packaging, such as bundling of cans and containers.

- 13
- ▲ 41 - 44

NON-SHRINKING FILM

"V" (Polyvinyl Chloride) for box overwrapping.

- 13
- ▲ 40 - 41 - 44

LAMINATES

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats and other formfill seal applications.

- 1 - 11 - 13 - 17
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48 - 49
- 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

NET BAGS, COTTON (PERMAC)

Strong, cotton net bags in several bright colors for produce packaging that invites customer attention.

- 25
- ▲ 58

POUCHES

For packaging processed meats, for "boil-in-bag" applications, and for cheese.

- 1 - 11 - 13 - 17 - 21 - 23
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

TRAYS

Made of high-impact or oriented polystyrene for consumer packaging of meat and poultry.

- 1 - 11 - 13
- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48
- 49 - 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

EQUIPMENT

For customized packaging lines: automatic, semi-automatic and hand operated equipment for edge sealing and vacuum sealing; shrink tunnels and clip applicators.

- ▲ 29 - 31 - 32 - 33 - 34 - 40 - 41 - 44 - 48 - 49
- 50 - 52 - 53 - 54 - 55 - 56 - 57 - 58

In addition to the flexible packaging products mentioned above, W. R. Grace Australia Pty. Ltd. supplies to Australian customers a line of materials as follows:

ABRAHAMS PRODUCTS

Bags converted from polyethylene, cellophane and polypropylene films. Sacks from hessian and jute fibers. Polyethylene and cellulose films.

● 1 - 7 - 8 - 9
▲ 29 - 35 - 36 - 37

CRESCO FERTILIZER PRODUCTS

Superphosphate

Basic ingredient used in mixed fertilizer formulations and in direct application.

Plant and Sales locations:
3 - 4 - 5 - 6

OMICRON PRODUCTS

Rigid containers such as cosmetic boxes; vacuum-formed industrial products, plastic lighting panels, plastic trays for food items, and formed products for the automotive and television industry; made from cellulose acetate, PVC sheeting and acrylic resins.

● 10
▲ 38

ORGANIC CHEMICALS

Polyvinylidene chloride and styrene butadiene latices, vinyl acetate homopolymer and copolymer emulsions, dispersing agents, resins and specialty chemicals; for paints, paper coatings, adhesives, carpets, textiles, plastics, rubber and other industries.

DARAN Paper Coating Latices

Polyvinylidene chloride (saran) latex forming films which exhibit extreme barrier protection against water, water vapor, grease, oils and gases.

DARATAK Adhesive Emulsions

Polyvinyl acetate homopolymer emulsions for adhesives, surface coatings, primer sealers, textile and leather finishes.

DAREX Carpet and Textile Latex

Styrene butadiene latex for use in carpet and textile backings.

DAREX Coating Emulsions

Styrene, vinyl acetate and acrylic emulsions for coatings, saturating, mastics, industrial finishes and specialty products.

▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

DAREX Copolymer Resins

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles and floor tiles.

● 18
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

DAREX 66L Pigment Binder

Ultra-micro-particle size polyvinyl acetate pigment binding agent for use in paper coatings.

▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

DAXAD Dispersing Agents

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, tanning and in other industries.

● 11 - 18
▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

EVERFLEX Paint Emulsions

Vinyl acetate copolymers for emulsions, paints, paper coating, acoustical tile coating and specialty industrial finishes.

▲ 29 - 30 - 33 - 40 - 41 - 44 - 48 - 49
50 - 52 - 54 - 55 - 56 - 58

PLASTIC ARTICLES

A broad line of fabricated plastic articles including DAWBARN polyethylene and polypropylene monofilament, multifilament and ribbon fibers, DAWBAC primary carpet backing; and AIRMOLD re-useable blow-molded boxes for consumer packaging. Also calendered vinyl plastic products, including table covers, converted consumer and industrial films, wall coverings and corrugated rigid sheet.

AIRMOLD Blow Molded Packaging

Custom blow molded double wall boxes in varying sizes and interior configurations for specialty packaging of power tools, cameras and other industrial and consumer products.

▲ 29 - 44 - 58

DAWBAC Fabric

Woven of polypropylene ribbon for use in primary carpet backing.

DLP Monofilament and Multifilament

Single filament deniers from 50 to 1000. Limited deniers in flat cross sections.

DLP Ribbon Monofilament

Available in deniers ranging from 250 to 1500.

DOC Core Rope

Available in increments of $\frac{1}{4}$ inch between $\frac{1}{2}$ inch and $1\frac{1}{2}$ inch.

▲ 29 - 58

Converted Consumer Films

Unsupported printed vinyl film—also embossed.

Corrugated Rigid Sheet

Colored, rigid corrugated vinyl sheets.

Industrial Films

Calendered unsupported clear and pigmented vinyl films; printed films available.

Table Covers

Calendered unsupported or supported vinyl film cut to dimensions or sold by the meter.

Vinyl Products

Vinyl adhesive fibers and laminated vinyl films for outdoor furniture.

Wall Coverings

Printed vinyl film laminated to fabric or polystyrene foam, or quilted to cellulose paper.

● 12
▲ 43

TEROSON PRODUCTS

A line of chemical specialties primarily for the automotive and construction industries.

Adhesives

Custom-tailored, special purpose adhesives based on natural rubber, synthetic rubber, SBR, NBR or resin for the automotive, construction, flooring, shoe and appliance industries, as well as a broad line of general purpose adhesives for industry.

Automotive Maintenance Products

A complete line of auto cleaners, polishes, radiator cleaners and sealers, rust inhibitors, windshield cleaners, engine cleaners, spot removers, anti-corrosion coatings and other automotive maintenance products.

Sealers and Sealants

Sealing mastics based on rubber, rubber-bitumen, SBR and plastisol for use in car manufacture, assembling and maintenance, as well as sealers and bonding materials for the construction and metal fabricating industries.

Sound Deadeners

Sound and vibration deadening products based on rubber, rubber-and-bitumen, and PVC; in liquid, sheet and multi-layer forms for use in car, bus, truck and train coach manufacture, as well as for the metal fabricating industry.

Underbody Coatings

Protective underbody coatings based on rubber, bitumen and plastisol for car, bus and truck manufacturers, vehicle dealers and service stations.

● 16
▲ 39 - 41 - 47 - 56

DAWBARN

Extrudes and markets polyethylene and polypropylene monofilament, multifilament and ribbon fibers. Fabricates and markets core rope for steel cables. Weaves, finishes and markets DAWBAC fabric, used as primary backing for tufted carpets.

General Office

901 S. Delphine Avenue
P. O. Box 460
Waynesboro, Virginia 22980
(703) 942-1101

● Plants

UNITED STATES

1 VIRGINIA, Waynesboro
(22980)
901 S. Delphine Avenue
P. O. Box 460
(703) 942-1101

CANADA

2 NOVA SCOTIA, Truro
589 Prince Street
(902) 895-5445

3 ONTARIO, Brantford
Prince Charles Road
(519) 752-5404

▲ Sales Offices

UNITED STATES

4 VIRGINIA, Waynesboro
(22980)
901 S. Delphine Avenue
P. O. Box 460
(703) 942-1101

CANADA

5 NOVA SCOTIA, Truro
589 Prince Street
(902) 895-5445

6 ONTARIO, Brantford
Prince Charles Road
(519) 752-5404

PRODUCTS

DAWBAC Fabric

Woven of polypropylene ribbon in 12- and 15-foot widths. Used in primary carpet backing.

DLP Monofilament and Multifilament

Single filament deniers from 50 to 1000. Limited deniers in flat cross sections.

DLP Ribbon Monofilament

Available in deniers ranging from 250 to 1500.

● 1 - 3
▲ 4 - 6

DOC Core Rope

Available in increments of $\frac{1}{4}$ inch between $\frac{3}{8}$ inch and $1\frac{1}{2}$ inch.

● 1
▲ 4

Finished Rope and Cordage

Available in Ontario and Nova Scotia only.

● 2
▲ 5 - 6

GRACE

GRACE PETROLEUM CORPORATION

Produces high gravity Libyan crude oil.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● **Producing Operations Office**

LIBYA

BENGHAZI
P.O. Box 199
Cable: GRACEPETECO,
BENGHAZI

▲ **Sales Office**

UNITED STATES

NEW YORK, New York 10005
7 Hanover Square
(212) 344-1200

Manufactures, processes and markets chocolate confectionery products, milk chocolate crumb, chocolate liquor, cocoa butter, cocoa powder, vermicelli (sprinkles), non-chocolate confectionery products, cookie drops, puddings, desserts, soft drinks and peanuts. Coffee and tea are also marketed and milk, butter, cream and ice cream are processed and sold.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

CHOCOLATE AND CONFECTIONERY DIVISION**● Plants****BELGIUM**

- 1** Chocolaterie Modele S. A.
(Martougin)
Helmstraat 109
Borgerhout-Antwerp
Tel. (03)36-50-16

FRANCE

- 2** C. J. Van Houten & Zoon
S.A.R.L.
11, rue Lazare Hoche
Boulogne Sur Seine
Tel. 605. 71. 40

GERMANY

- 3** C. J. Van Houten & Zoon A. G.
Hubertusstrasse 189, Krefeld
Tel. 28107

IRELAND

- 4** Urney Chocolates, Limited
Tallaght, County Dublin
Tel. 592766
- 5** Liam Devlin and Sons Limited
49/50 Cork Street, Dublin
Tel. 59812

NETHERLANDS

- 6** N. V. Cacaofabriek "De Zaan"
P. O. Box 2, Koog Zaandijk
Tel. 02980-80770
- 7** N. V. Drankenindustrie Raak
Hoogstraat 47, Koog aan de Zaan
Tel. 02980-83258

- 8** Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Prinses Irenelaan 7, Weesp
Tel. 02740-2751

- 9** Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Oude Haven 24a, Medemblik
Tel. 02274-541

- 10** Verstuivingsbedrijf "De Zaan
Spray" N. V.
(Non-Confectionery Contract
Spray-Drying)
Energieweg 9, Nunspeet
Tel. 03412-2974

SINGAPORE

- 11** Sheng Huo Enterprise Ltd.
481 Tanglin Halt Road
Tel. 644. 201

UNITED STATES

- 12** Ambrosia Chocolate Co. Division
528 West Highland Avenue
Milwaukee, Wisconsin 53203
(414) 271-2089

- 13** Ambrosia Chocolate Co. Division
3746 North Davidson
Charlotte, North Carolina
(704) 375-3731

- 14** Freeze-Dry Confections
(Pilot Plant)
1005 West Center Street
Milwaukee, Wisconsin 53203
(414) 1.0 2-7740

- 15** Hooton Chocolate Company
355 Fifth Street
Newark, New Jersey 07107
(201) 485-5385

▲ Sales Offices**BELGIUM**

- 16** N. V. Handelsmaatschappij
HOMAC
Helmstraat 109
Borgerhout-Antwerp
Tel. 03-35-50-16

ENGLAND

- 17** Meltis Ltd. (Sales Agents for
Van Houten and Van Melle)
Miller Road, Bedford
Tel. Bedford 61291
- 18** Van Houten Limited (Bulk
Products Sales Office)
c/o Grace Brothers, Ltd.
Glen House, Stag Place
London, S.W. 1
Tel. Victoria 5511

- 19** B. C. Murch & Co. Limited
c/o Messrs. Armitage & Norton
Chartered Accountants
Salisbury House, Finsbury Circus
London, E. C. 2
Tel. National 8418

FRANCE

- 20** C. J. Van Houten & Zoon
S.A.R.L.
11, rue Lazare Hoche
Boulogne Sur Seine
Tel. 605. 71. 40

GERMANY

- 21** Cacao De Zaan Import-
gesellschaft m. b. H.
P. O. Box 446
Hohe Bleichen 13,
2000 Hamburg 36
Tel. 343056

- 22** C. J. Van Houten & Zoon A. G.
Hubertusstrasse 189, Krefeld
Tel. 28107
- 23** Vermittlungsagentur der N. V.
Cacaofabriek de Zaan G.m.b.H.
P. O. Box 44
Schuesselkorb 35, 2800 Bremen 1
Tel. 321340

IRELAND

- 24** Urney Chocolates, Limited
Tallaght, County Dublin
Tel. 592766
- 25** Liam Devlin and Sons Limited
49/50 Cork Street, Dublin
Tel. 53812
- 26** B. C. Murch & Co. Ltd.
(See Urney Chocolates, Ltd.)

ITALY

- 27** Van Houten (Italiana) S.R.L.
Via Alessandro Volta 23, Como
Tel. 32895

JAPAN

- 28** Price Mason & Co.
(Van Houten Sales Agents)
Hasegawa Building
2, 5 - Chome Awajimachi
Higashiku, Osaka
Tel. 202-4895

NETHERLANDS

- 29** N. V. Cacaofabriek "De Zaan"
22 Chulia Street
P.O. Box 2 Koog Zaandijk
Tel. 02980-80770
- 30** N. V. Drankenindustrie Raak
Hoogstrat 47, Koog aan de Zaan
Tel. 02980-83528
- 31** Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Prinses Irenelaan 7, Weesp
Tel. 02740-2751
- 32** Verstuivingsbedrijf "De Zaan
Spray" N.V.
(Non-Confectionery Contract
Spray-Drying)
Energieweg 9, Nunspeet
Tel. 03412-2974

SINGAPORE

- 33** Van Houten (Malaysia) Ltd.
22 Chulia Street
Tel. 77108

UNITED STATES

- 34** Ambrosia Chocolate Co. Division
3746 North Davidson
Charlotte, North Carolina 28202
(704) 375-3731
- 35** Ambrosia Chocolate Co. Division
528 West Highland Avenue
Milwaukee, Wisconsin 53203
(414) BR 1-2089
- 36** De Zaan, Incorporated
82 Wall Street
New York, N. Y. 10005
(212) HA 5-2656
- 37** Hooton Chocolate Company
339-361 Fifth Street
Newark, New Jersey 07107
(201) 485-5385
- 38** C. J. Van Houten & Zoon, Inc.
537 Greenwich Street
New York, N.Y. 10013
(212) WA 4-7101

PRODUCTS

Chocolate Liquor (Cocoa Mass)

Obtained by grinding roasted cocoa beans after they have been broken and the shell removed. It is used to make milk and sweet (dark) chocolate or to supply the chocolate flavoring to various kinds of foods. Available in molded form, packed in cartons and boxes, and in liquid form in heated tank trucks.

● 1 - 4 - 6 - 8 - 11 - 12 - 15
▲ 16 - 18 - 20 - 21 - 22 - 23 - 24 - 27 - 28
29 - 31 - 33 - 34 - 35 - 36 - 37 - 38

Cocoa Butter

Natural fat of cocoa beans, obtained by pressing chocolate liquor. It is sold in bulk for chocolate manufacture and packed as molded cakes or in liquid form in heated tank trucks.

● 2 - 3 - 6 - 8 - 11 - 12
▲ 16 - 20 - 21 - 22 - 23 - 27 - 28 - 29
31 - 33 - 34 - 35 - 37 - 38

Cocoa Powder

The pulverized and sifted residue resulting from pressing part of the cocoa butter from chocolate liquor. It is used as a chocolate flavoring material for chocolate drinks, ice cream, confectionery, cookies, prepared cake mixes, syrups, etc. Offered in various ranges of

cocoa butter content from 8% to 35%. The most customary grades are 10%-12% (low-fat powder), 16%-18%, and 22%-24% (high fat powder or "breakfast cocoa"). Available in bulk packing or consumer size packages.

● 2 - 3 - 6 - 8 - 11 - 12
▲ 16 - 18 - 20 - 21 - 22 - 23 - 27 - 28
29 - 31 - 33 - 34 - 35 - 36 - 37 - 38

Coatings (Three Types)

Chocolate coating, or couverture, and confectioner's coating are used to enrobe such products as candy bars, boxed chocolates, cookies, cakes, etc. Chocolate coating is made from chocolate liquor and pure cocoa butter, while "confectioner's coating" uses cocoa powder and hardened vegetable fat. Both types are available in molded form or in liquid form in heated tank wagons. Ice cream novelty coatings are generally made with a vegetable fat having a lower melting point than cocoa butter. They can be made with either chocolate liquor or cocoa powder as the basic flavor ingredient. Available in several sizes of steel drums or in liquid form in heated tank wagons.

Couverture & Confectioner's Coating

● 1 - 4 - 8 - 11 - 12 - 13 - 15
▲ 16 - 18 - 20 - 22 - 24 - 27 - 31
33 - 34 - 35 - 37 - 38

Ice Cream Novelty Coating

● 4 - 12 - 13 - 15
▲ 24 - 34 - 35 - 37

CONSUMER PRODUCTS GROUP

Chocolate Confectionery Products

Plain and filled bars and tablets, bonbons, and other specialties. Available in consumer size packages and bulk (weigh-out).

- 1 - 4 - 8 - 9 - 11
- ▲ 16 - 17 - 19 - 20 - 22 - 24
- 26 - 27 - 28 - 31 - 33 - 36

Non-Chocolate Confectionery Products

Licorice products, paste products, boilings, chewing gum and other sugar candy products, available in consumer packaging and bulk (weigh-out). In certain countries Van Houten or its sales agents act as distributors for the Van Melle line of sugar confectionery in proprietary or consumer packaging.

- 1 - 4 - 5 - 8 - 11 - 14
- ▲ 16 - 17 - 20 - 22 - 24 - 25
- 27 - 28 - 31 - 33 - 36

Vermicelli

Chocolate sprinkles and various flavors of sugar sprinkles in both consumer and bulk packaging.

- 6 - 8
- ▲ 16 - 20 - 21 - 22 - 27 - 29 - 31 - 33 - 36 - 38

Cookie Drops

Chocolate and non-chocolate miniature drops used in sweet biscuits or cookies, usually along with nut meats. Available in bulk packaging only.

- 8 - 12 - 15
- ▲ 16 - 18 - 20 - 22 - 27 - 28
- 31 - 33 - 34 - 35 - 37 - 38

Milk Chocolate Crumb

Composed of milk, chocolate liquor and sugar and used to make milk chocolate. Available in bulk packaging only.

- 4
- ▲ 24

Puddings and Desserts

Pudding powders and instant desserts, sold as proprietary packaged products for consumer use.

- 2 - 3
- ▲ 20 - 22

Coffee and Tea

Available in consumer or proprietary packaging.

- ▲ 31

Nuts and Soft Drinks

Salted and flavored peanuts, vacuum and non-vacuum packed; carbonated and non-carbonated soft drinks and syrups in consumer size bottles; non-carbonated soft drinks in fountain or self-service dispensers.

Nuts and Bottled Soft Drinks

- 7
- ▲ 30

Non-Carbonated Soft Drinks in Dispensers

- 2 - 7
- ▲ 20 - 31

DAIRY PRODUCTS

Milk, butter, cream, ice cream and related products.

● Plants

DENMARK

- 39 Hellerup Fløde Is, A/S
Fabrik Fruedal, Tureby
- 40 Hellerup Fløde Is, A/S
Omsgårdsvej 5, Hellerup
Tel. Hellerup 8800

IRELAND

- 41 Hughes Brothers Limited
Hazelbrook Dairy
Rathfarnham, Dublin 14
Tel. 983033

▲ Sales Offices

DENMARK

- 42 Hellerup Fløde Is, A/S
Halskovvej 46, Korsør
Tel. Korsør 346
- 43 Hellerup Fløde Is, A/S
Helligkorsvej 4, Røskilde
Tel. Røskilde 2672
- 44 Hellerup Fløde Is, A/S
Slotsgade 50, Nykøbing Falster
Tel. (03) 85 05 55

- 45 Hellerup Fløde Is, A/S
Strandvejen 75 Slagelse
Tel. (03) 524233
- 46 Hellerup Fløde Is, A/S
Vordingborgvej 66, Naestved
Tel. (03) 72 07 70

IRELAND

- 47 Hughes Brothers Limited
Hazelbrook Dairy
Rathfarnham, Dublin 14
Tel. 983033

*Engages in chemical manufacturing, food processing,
paper manufacturing and converting, agriculture, mining and trading.*

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● Plants
ARGENTINA

- 1 Dewey & Almy (Argentina)
S. A. I. y C.
Primera Junta 550, Quilmes
F. C. N. G. R.
Province of Buenos Aires
Tel. 203-0880

BOLIVIA

- 2 Cia. Molinera Boliviana S. A.
Calle Calama No. 42
Casilla 495
Cochabamba
Tel. 4701
- 3 Cia. Molinera Boliviana S. A.
Avenida Vasquez
Casilla 852
La Paz
Tel. 29841
- 4 International Mining Co.
Chojilla (Mine)
- 5 International Mining Co.
Tanapaca (Mine)
- 6 Sociedad Boliviana de
Cemento S. A.
Casilla 557
Viacha
Tel. 23615

BRAZIL

- 7 Eriez Produtos Magnéticos e
Metalúrgicos Ltda.
Rua Othao S/N°
Vila Leopoldina—Alto da Bapa
Sao Paulo
Tel. 32-8188
- 8 Produtos Químicos "Darex,"
Limitada
Avenida Mofarrej No 619
Vila Leopoldina—Alto da Lupa
Sao Paulo
Tel. 32-8188
- 9 Vulcan Material Plastico S. A.
Estrada do Colegico, 380
Caixa Postal 4400
Rio de Janeiro, G. B.
Tel. 30-9852

- 10 Vulcan Material Plastico S. A.
Estrada da Capela do Ribeirao
Km. 9
Mogi das Cruzes
Sao Paulo

CHILE

- 11 Industrias Coia S. A.
Calle 1 Poniente No. 1201
Vina del Mar
Tel. 85181
- 12 Electromat S. A.
Vicuna Mackenna 2385
Casilla 2103
Santiago
Tel. 53031
- 13 Empresa Pesquera Eperva S. A.
San Marcos 120
Casilla 293
Arica
Tel. 1790
- 14 Empresa Pesquera Eperva S. A.
Serrano 302
Casilla 30-D
Iquique
Tel. 485
- 15 Hucke Hermanos S. A. C.
Yungay 2170
Valparaiso
Tel. 7503

COLOMBIA

- 16 Carboquímica, S. A./Industrias
Permapint S. A.
Kilometro 9 Carretera a Soacha
Bogota
Tel. 38 02 45
- 17 Comestibles La Rosa S. A.
Carretera Pereira/Santa Rosa
Apartado Aereo 44
Pereira
Tel. 2645
- 18 Conservas California S. A.
Carretera al Aeropuerto
Apartado Aereo 1322
Barranquilla
Tel. 60210

- 19 Ico Pinturas, S. A.
Apartado Aereo 2301
Barranquilla
Tel. 2.02.75
- 20 Productura de Papeles S. A.
(PROPAL)
Apartado Aereo 4412
Cali
Tel. 60125
- 21 Quimica Proco S. A.
Autopista Sur Km-10
Itagui
Tel. 77 00 44
- 22 Sinteticos S. A.
Calle 31 #44-13
Medellin
Tel. 45 19 00

COSTA RICA

- 23 Pozuelo, S. A.
Casilla 1750
La Uruca, San Jose
Tel. 4160

ECUADOR

- 24 Industria Cartonera Ecuatoriana
S. A.
Apartado #186
Puerto Nuevo, Guayaquil
Tel. 42040
- 25 Pinturas Ecuatorianas S. A.
(PINTEC)
Avenida de las Americas
Apartado 186
Guayaquil
Tel. 22065

GUATEMALA

- 26 Alimentos y Conservas
Ducal, S.A.
Carretera del Atlantico, km. 7.
Guatemala City
Tel. 880537

● **Plants (continued)**

MEXICO

- 27** Cueros Artificiales, S. A. de C. V.
San Francisco 102
Apartado 8803
Mexico 1, D. F.
Tel. 271021
- 28** Productos Darex, S. A. de C. V.
Km. 15½ Carretera Mexico—
Laredo
Santa Clara
Tel. 69-21-70

PERU

- 29** Cia. "Arturo Field y La Estrella"
Ltda.
Avenida Venezuela 2450
Lima
Tel. 39-200
- 30** Cartavio S. A.
Hacienda Cartavio
Trujillo
Tel. Cartavio No. 3
- 31** Cia. Pesquera "La Gaviota" S. A.
km. 65 Panamericana Antigua
Chancay
Tel. 77
- 32** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Avenida Argentina 5447
Lima
Tel. 32703
- 33** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Avenida Francisco Pizarro 926
Rimac
Tel. 76570
- 34** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Vitarte
Tel. 32439
- 35** Envases Sanmarti S. A.
Avenida Panamericana 4001
Surquillo, Lima
Tel. 56512
- 36** Fabrica de Pinturas Vencedor
Avenida Venezuela 1901
Lima
Tel. 37088
- 37** Sociedad Paramonga Ltda.
Avenida Panamericana 4001
Surquillo, Lima
Tel. 57-902
- 38** Sociedad Paramonga Ltda.
Avenida Venezuela 1891
Lima
Tel. 44-960

- 39** Sociedad Paramonga Ltda.
Hacienda Paramonga
Paramonga
District of Pativilca
Tel. Barranca 2131

VENEZUELA

- 40** Plastiflex C. A.
Ave. Principal de Los Ruices
No. 5
Caracas
Tel. 345521

▲ **Sales Offices**

ARGENTINA

- 41** Dewey & Almy (Argentina)
S. A. I. y C.
Primera Junta 550
Quilmes F. C. N. G. R.
Province of Buenos Aires
Tel. 203-0680

BOLIVIA

- 42** Grace y Cia (Bolivia) S. A.
Calle Mercado #1099
Casilla 852
La Paz
Tel. 25099
- 43** International Machinery Co.
(Bolivia) S. A.
Socabaya 301
Casilla 852
La Paz
Tel. 10972

BRAZIL

- 44** Eriez Produtos Magnéticos e
Metalurgicos Ltda.
Rua Direita, 250
Sao Paulo
Tel. 35-4632
- 45** Produtos Quimicos "Darex"
Limitada
Rua Direita, 250
Sao Paulo
Tel. 35-4632
- 46** Vulcan Material Plastico S. A.
Avenida Rio Branco,
156-20 Andar
Caixa Postal 4400
Rio de Janeiro, G. B.
Tel. 42-6010

CHILE

- 47** Grace y Cia. (Chile) S. A.
Morande 341
Casilla 14-D
Santiago
Tel. 1270/1271

- 48** Hucke Hermanos S. A. C.
Freire 321
Casilla 53V
Valparaíso
Tel. 7501/7503

COLOMBIA

- 49** Carboquimica, S. A./Industrias
Permapint S. A.
Calle 14 #15-53
Bogotá
Tel. 43 11 38
- 50** Comestibles La Rosa S. A.
Dosquebradas
Apartado Aereo #44
Pereira
Tel. 2645
- 51** Conservas California S. A.
Apartado Aereo #1322
Barranquilla
Tel. 60210
- 52** Ico Pinturas, S. A.
Apartado Aereo #2301
Barranquilla
Tel. 2 02 75
- 53** Productura de Papeles S. A.
(PROPAL)
Apartado Aereo #4412
Cali
Tel. 60125
- 54** Quimica Proco S. A.
Apartado Aereo #919
Medellin
Tel. 45 19 00
- 55** Sinteticos S. A.
Calle 31 #44-13
Medellin
Tel. 45 19 00

COSTA RICA

- 56** Pozuelo S.A.
Casilla 1750
La Uruca, San Jose
Tel. 4160

ECUADOR

- 57** Grace y Cia. (Ecuador) S. A.
Comercial
Casilla 186
Guayaquil
Tel. 11240

GUATEMALA

- 58** Alimentos y Conservas
Ducal, S.A.
Carretera del Atlantico, km. 7.
Guatemala City
Tel. 880537

MEXICO

- 59** Cueros Artificiales, S. A. de C. V.
San Francisco 102
Apartado 8803
Mexico 1, D. F.
Tel. 271021

- 60** Productos Darex, S. A. de C. V.
Leibnitz 34-3 er. Piso
Apartado M-9150
Mexico City
(Sales Agent for Central
America's Dewey and Almy and
CRYOVAC Product Lines)
Tel. 33-24-40

PERU

- 61** Grace y Cia. (Peru)
Casilla 2488
Lima
Tel. 75000

VENEZUELA

- 62** Productos Darex S. A.
Edificio Union, Ofc. 51
Calle Real de Sabana Grande
Apartado 5136 Chacao
Caracas
Tel. 71-52-80
- 63** Plastiflex C. A.
Ave. Principal de Los Ruices
No. 5
Caracas
Tel. 34-55-21

PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Adhesive Emulsions

Polyvinyl acetate homopolymer emulsions for adhesives, surface coatings, primer sealers, textile and leather finishes.

● 11 - 22
▲ 47

Adhesives and Bonding Agents

Resin, latex and polysulfide compounds for masonry patching and resurfacing for plaster bonding and surface bonding of concrete, toppings and aggregates.

● 21 - 22
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Agricultural Emulsifiers

A wide line of surfactants used as agricultural emulsifiers and detergent specialties by other industries.

● 21
▲ 54

Agricultural Solvents

Liquid mixtures of aromatic and aliphatic solvents. Used in insecticide formulation.

● 16
▲ 49

Air Entraining Additives

Saponified tall oil, lignin and low alkali chemicals which produce controlled air entrainment characteristics in portland cement.

● 1
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Air Entraining Admixtures - DAREX AEA

Air entraining agent used in concrete for roads, dams and silos.

● 1
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Alkyd Resins

A series of heat resistant resins which retain their initial appearance after long exposure to severe weather. Extensively utilized in the paint industry as protective and decorative coatings.

● 11 - 21
▲ 54

Architectural Paints

A complete line of paints for application to wood, metal and masonry for all-weather protection.

● 19 - 22 - 25 - 36
▲ 47 - 52 - 55 - 57 - 61

Aromatic Solvents

Several liquid industrial solvents, including benzol 90 (90% benzene minimum), toluol (90% toluene minimum) and xylol (90% xylene minimum). Available in 55-gallon drums or in bulk.

● 16
▲ 49

Automotive Lacquers

A finish used to obtain a high gloss; available in a wide range of colors.

● 19 - 25 - 36
▲ 47 - 52 - 55 - 57 - 61

Balloons

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packaged to specification.

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Battery Dry Charge Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Battery Separators, Rubber Plate, DARACEL

Microporous rubber separators for use as electrical insulators in automotive batteries.

● 8

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Battery Separators, ARMORIB and DARAK

Cellulose plates saturated with phenolic resins with plastic ribs for use as electrical insulators in batteries of automobiles, buses and tractors.

● 1 - 8

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Biscuits

A complete line of biscuits, including wafers, pretzels, sodas and saltines packed in tins. Also assorted fancy biscuits such as Petit Beurre, Custard Cream and Cafe Noir packed in tins or cartons. Biscuits are available in bulk or in small packages for the consumer trade.

● 17 - 23

▲ 50

Bleaching Powder

Contains 33% active chlorine and is used for textile bleaching. Packed in 100-pound drums.

● 39

▲ 61

Board, Paper

Several kinds of paper board marketed in rolls and reams, in weights ranging from 250 to 450 grams per square meter. The duplex white board is designed for printing, while the duplex-type board finds use in food containers, etc. Gray and straw boards are sold in weights from 350 to 550 grams per square meter in rolls or reams.

● 20 - 39

▲ 61

Bond and Manifold Papers

Primarily white writing paper; also available in colors. Sold in rolls and reams, in weights from 30 to 120 grams per square meter.

● 20 - 39

▲ 53 - 61

Bristol Board

Two grades of Bristol-type papers (standard and extra) are available in white and in colors, with one or both sides supercalendered. Sold in rolls or reams in weights from 110 to 250 grams per square meter.

● 39

▲ 61

Calcium Chloride

Sold as 34% solution or as 80% solid. Used for road treatment and for refrigeration.

● 39

▲ 61

Candies

A variety of kinds such as hard, filled, and panned candies; caramels; compressed tablets; soft and grained marshmallows, gum drops, and novelty items including bubble gum and lollipops.

● 15 - 17 - 23 - 26 - 29

▲ 48 - 50 - 61

Canned Foods

A variety of canned foods, including vegetables, and a line of tomato products.

● 17 - 23 - 26

▲ 50

Can Sealing Compounds

Water dispersion of special rubbers for application to ends of cylindrical, rectangular and oval cans by nozzle, die or high-speed nozzle-type liners. Used for meat, fish, fruit, vegetable and general line tin-plate and aluminum containers. Available in 200-liter drums and 20-kilo pails.

● 1 - 8 - 28

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Cap and Lid Gasketing Compounds

A number of compounds used in metal caps to seal glass jars containing jams, marmalades, fruit, and vegetables. Includes water dispersions of rubber latex and PVC-based plastisol compounds applied by high speed automatic nozzle liners.

● 1 - 8 - 28

▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Casings, Food Products

Used for liverwurst and bloodwurst, luncheon meat, ground beef and lard. Sold in linear meters. Characteristics similar to those of CRYOVAC bags and films.

● 8

▲ 45

Cattle Feed

A well-balanced feed for cattle. Sold under the trademark "MOREA".

- 39
- ▲ 61

Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Caustic Soda

The most important commercial caustic. Prepared and sold as a 50% solution. Principle uses are in the paper, edible oil and soap-making industries.

- 39
- ▲ 61

Cereals

Baby cereals, pancake mixes and cake mixes.

- 17 - 23 - 26
- ▲ 50 - 56 - 58

Chlorine

Clear amber liquid, soluble in water and alkalies. Sold in 64-pound or 2000-pound containers. Used for water purification and textile and pulp bleaching.

- 39
- ▲ 57 - 61

Chocolate Confectionery

A wide selection of chocolate candies, including filled and solid chocolate bars, bonbons and chocolate-covered marshmallows.

- 15 - 17 - 29
- ▲ 48 - 50 - 61

Cocoa Powder

Sold in bulk to other manufacturers and through retail channels as well.

- 15 - 17
- ▲ 48 - 50 - 61

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Compound Application and Drying Equipment

Automatic and semi-automatic lining machines used to apply DAREX and DARASEAL compounds; tunnel dryers used to dry sealing compounds; and equipment for the application of side seam cements.

- 1
- ▲ 41 - 42 - 45 - 47 - 54 - 56 - 57 - 58 - 61 - 62

Cookies

A wide variety of crackers and biscuits, including both fancy and popular-priced assortments. (See "Biscuits", p. 86.)

- 15 - 17 - 23 - 29
- ▲ 48 - 50 - 61

Copolymer Resins

Styrene-butadiene copolymer resins marketed in granular form; used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required.

- ▲ 62

Corrugated Cartons

A large variety of boxes in different weights and sizes, made of corrugated board with two-color printing. Outside liner is available in white or several colors.

- 24 - 38
- ▲ 57 - 61

Coumarone-Indene Resins

Yellowish solid hydrocarbon resins made from coal tar oils. Used in the rubber and paint industries.

- 16
- ▲ 49

Creosotes

Creosote-wood, a solution of coal tar oil, contains cresols and pyridic bases. Available in 55-gallon drums. Creosote-disinfectant, an emulsion of coal tar oils, contains a minimum of 25% phenols and cresols. Used as an agricultural and veterinary disinfectant.

- 16
- ▲ 49

Crossbottom Bags

Square bottom kraft grocery bags.

- ▲ 61

Crown Sealing Compounds

PVC-based plastisol compound which is spun-lined or molded into metal beverage crowns as a replacement for cork liners.

- 8 - 28
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

LATIN AMERICAN GROUP

Cutting Bits

Bits containing 50% cobalt for machine tool applications. Available in plastic boxes, six units each.

- 7
- ▲ 44

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

- 23
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Dental Alloys

Cobalt-based alloys for dental prosthesis. Packed in 0.5-kilo plastic boxes.

- 7
- ▲ 41 - 42 - 44 - 45 - 47 - 54 - 57 - 61 - 62

Dispersing Agents

Organic salt of carboxylated polyelectrolyte and polymerized organic salts of naphthalene sulfonic acid produce stable water dispersions of fine insoluble particles.

- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Drawing Emulsions and Drawing Lubricants

A number of water and alcohol dilutions of castor and white oil, used in sheet metal stamping operations to prevent fracture of lacquer coatings and to reduce wear on dies.

- 1
- ▲ 42 - 47 - 61 - 62

Edible Oil

Vegetable and animal oils used for food purposes containing not over 0.1% of free fatty acid.

- 11
- ▲ 47

Electric Lamps

A complete line of industrial and domestic lamps, bulbs and lights.

- 12
- ▲ 47

Enamels

A complete line of interior and exterior enamels for industrial and domestic use. Applicable by roller, brush or spray and sold in a wide range of colors.

- 19 - 25 - 36
- ▲ 47 - 52 - 55 - 57 - 61

Esters, Dimerginates

Esters of vegetable-oil-derived dimeric acids used for production of resins, polyesters and polyamides.

- 10
- ▲ 46

Ethyl Alcohol

A denatured solvent for industrial use. Available in bulk and smaller containers.

- 30 - 39
- ▲ 61

Exterior/Interior Paints

A wide range of paints used for decorative and protective purposes on metal, wood and masonry.

- 19 - 22 - 25 - 36
- ▲ 47 - 52 - 55 - 57 - 61

Extruded Products

A number of plastic products, including garden hoses and PVC extrusions for the building trade.

- 22
- ▲ 55

Fish Meal

Reduced from anchovy fish meal, containing 65-67% protein, below 10% fats, and 6-10% water. Available in 100-pound and 50-kilo PE-lined multiwall paper bags and in bulk.

- 13 - 14 - 31
- ▲ 47 - 61

Fish Oil

Extracted from anchovy, crude grade, below 3% free fatty acid, iodine number 180, Gardner Color 9. Water content below 1%. Available in bulk.

- 13 - 14 - 31
- ▲ 47 - 61

Flexible Packaging Equipment

Automatic and semi-automatic packaging machines that vacuumize, twist and seal CRYOVAC bags. Tanks and tunnels which utilize hot air or boiling water are available for shrinking CRYOVAC bags or film after the packaging operations.

- 1 - 8
- ▲ 42 - 45 - 47 - 61 - 62

Floor Materials

Products to maintain, protect and repair masonry surfaces; including hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

- ▲ 62

Floor Tile

Flooring material based on plasticized PVC. Available in different colors and sizes of three types: Plain, Terrazzo and Marble.

- 22 - 27
- ▲ 46 - 50

Flour, Wheat

Milled wheat used in baking.

- 2 - 3
- ▲ 42

Folding Boxes

Boxes made of folding-type paperboards in a large variety of sizes, shapes and weights. Wax coatings and offset and lithographic printing are available.

- 35 - 37
- ▲ 61

Formaldehyde

A clear, colorless, aqueous solution 37% formaldehyde by weight. Used in the manufacture of phenolic, melamine and urea resins; in plastics, dyes, leather and paper. Available in drums and bulk.

- 21
- ▲ 54

Fruit Concentrates

For beverages, pastries and juices. Concentration 12° to 35° Brix. Available in 109 fluid ounce/6 cases (#10 cans) and 5-gallon cans. (Guava, pineapple, mango, papaya and tamarind.)

- 17 - 18 - 23 - 26
- ▲ 51 - 52 - 53 - 54

Fruit Nectars

Rich in pulp and exotic tropical flavors. Available in 6/48-ounce cases and 12/24-ounce cases. (Guava, pineapple, mango, tamarind, apricot, pear, apple and peach.)

- 17 - 18 - 26
- ▲ 51 - 52 - 53 - 54

Gas Absorbents

Soda lime with indicator, used as carbon dioxide absorbent in anesthesia and basic metabolism determinations. Also used as acid gas absorbent in submarines and certain diving equipment. Packaged in 55-gallon drums, in 5-gallon pails and in one-kilo cans.

- 1
- ▲ 42 - 47 - 57 - 61 - 62

Gin

An aromatic, alcoholic liquor sold under agreement with Tanqueray Gordon & Co., London, using "Gordon's" as a trademark.

- 39
- ▲ 61

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack-set tendencies in portland and hydraulic cements.

- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Grocery Kraft Bags

Square bottom and automatic opening grocery bags, covering all the usual sizes and manufactured with kraft paper. Multicolor printing is available.

- 38
- ▲ 61

Hard Facing Materials

Cobalt special alloy welding rods for hard facing, heat-resistant or abrasion-resistant overlays.

- 7
- ▲ 44

Hydrochloric Acid

Clear, colorless or slightly yellow liquid with a pungent odor; soluble in water, alcohol and ether. Technical grade, 32%; used in the metalworking, textile and chemical industries.

- 39
- ▲ 61

Industrial Adhesives

A number of adhesive compounds useful for general purposes and special applications. Includes compounds based on polyvinyl acetate, casein, urea-formaldehyde and phenol formaldehyde. Also rubber adhesives for automotive and industrial uses.

- 21 - 22
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Industrial Belts

Laminated PVC-impregnated cloth for use on power transmission products such as conveyors and power belts.

- 22
- ▲ 55

Industrial Salt

Prepared from underground brine deposits and sold as the technical grade material. Main users are the chemical industries and textile and soap manufacturers.

- ▲ 61

Jams and Marmalades

Complete line of spreads packed in glass jars.

- 17
- ▲ 50

Kraft Paper

Wrapping, grocery bag and multiwall bag varieties of kraft papers, ranging in weights from 40 grams per square meter to 180 grams per square meter. Available "Clupak"-processed and polyethylene coated, in rolls and reams, both trimmed to specifications.

- 20 - 38 - 39
- ▲ 53 - 61

Lacquer Fillers

For application in wood finishing. Available in quart and gallon cans.

- 19
- ▲ 52

Laminates, Industrial and Decorative

Laminates consist of several phenolic-impregnated paper layers with melamine resin. Principle uses include desk tops, wall coverings and assorted decorator applications. A new related product line consists of phenolic laminates for use in industrial panel boards and electrical circuit boards.

- 22
- ▲ 55

Latex Foam

Sold in form of molded products such as pillows, mattresses, seats, and as thin foam film, with or without textile backing. Available in a variety of sizes and types.

- 9
- ▲ 46

Latex Paints

A 100% latex paint excellent for interior walls, ceilings or woodwork. Available in quart, gallon, 5- and 55-gallon drums. For large construction operations, latex paints are available in one- or 55-gallon containers with minimum orders of 100 gallons.

- 19 - 22 - 25 - 36
- ▲ 47 - 52 - 55 - 57 - 61

Leather Oils

A number of sulfonated oils for leather tanning.

- 21
- ▲ 54

Liners and Corrugating Medium

Outside and inside liners and corrugating medium are available in rolls with weights from 160 to 350 grams per square meter for liners and 160 grams per square meter for corrugating medium.

- 39
- ▲ 61

Liquid Fluxes

Water and alcohol solutions of zinc chloride and double salts of zinc and ammonium chloride used in automatic can lines for soldering operations. Regularly packed in 100 kilo wooden barrels.

- 1
- ▲ 42 - 47 - 61 - 62

Lithographic Inks

A wide range of inks for the printing industry.

- 24
- ▲ 57

Magnetic Materials

Several permanent magnetic alloys as well as magnetic equipment for separation and other industrial applications. Available in a variety of sizes and shapes packed in wooden boxes.

- 7
- ▲ 44

Maintenance Paints

Paints, lacquers and primers for application to metal, wood and masonry for protective and decorative purposes.

- 19 - 22 - 25 - 36
- ▲ 47 - 52 - 55 - 57 - 61

Margarine

A blend of refined, edible oils churned to the consistency of a spread.

- 11
- ▲ 47

Marine Paints

Anti-fouling paints for application to metal and wooden hulls below the water line. Provides protection against vegetation and marine encrustations. Extra strong weather-resistant paints for decks and the interior and exterior of the superstructure. All marine paints available in quart, gallon, 5- and 55-gallon drums for brush application.

- 19 - 36
- ▲ 47 - 52 - 55 - 61

Melamine Formaldehyde Resins

Synthetic resins of the thermosetting type, made from melamine and formaldehyde. Used for molding compounds and adhesives, particularly in the paper and textile industries.

- 21
- ▲ 54

Metal Galvanide Primer

Excellent adhesion on all galvanized surfaces. Serves as a base coat and is available in quart, gallon, 5- and 55-gallon drums.

- 19 - 22 - 25 - 36
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Metal Primers

Red lead primers—suitable for coating bridges, pipelines, and iron and steel structures.

Red oxide primers—for interior and exterior metal surfaces, especially good for weather resistance.

Zinc chromate primers—protect all metal surfaces.

All primers available in quart, gallon, 5- and 55-gallon drums.

- 19 - 25 - 36
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Molasses

Blackstrap molasses, the syrupy liquid which is left after all the sucrose has been removed from sugar-cane juice by concentration, crystallization and separation of the sugar crystals. Used in food, feed and in the production of ethyl alcohol. Available in bulk.

- 30
- ▲ 61

Multiwall Paper Bags

Straight kraft or "Clupak"-processed multiwall bags for extensibility. Pasted or sewn bottoms, open mouth and valve-type closing, with optional polyethylene coating. Printing (maximum two colors) and sizes to suit customer requirements.

- 38 - 39
- ▲ 61

Pail and Drum Sealing Compounds

Activated rubber base compounds for use on covers, bottoms and double seams of pails and drums. Available in 200-liter drums, 60- and 85-kilo drums and 20-kilo pails.

- 8 - 28
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Paint Emulsions

Vinyl acetate copolymer for emulsions, paints, paper coatings, acoustical tile coating and specialty industrial finishes.

- 11 - 21 - 22
- ▲ 47

Paints

Paints, lacquers and varnishes used specifically for decorative and protective purposes on a variety of products, including automobiles, cabinets, woodwork and blackboards.

- 19 - 22 - 24 - 36
- ▲ 47 - 52 - 55 - 57

Paper Products

See Bristol Board and Paper Board p. 86; Kraft Paper and Liners, p. 90; Multiwall Bags, this page; Sulfite Paper, p. 93 and Tissue Papers, p. 94. See also p. 18 for complete index listings.

Paraformaldehyde

A white solid, insoluble in alcohol and ether, but soluble in a strong alkali solution. Used in the production of resins and as a disinfectant, fumigant and fungicide.

- 21
- ▲ 54

Pesticides

A variety of pesticide compounds which include insecticides for the control and eradication of insects and herbicides for the elimination of weeds.

- 21
- ▲ 54 - 57

Phenol Formaldehyde Molding Powders

A group of synthetic molding powders important in the manufacture of buttons, bottle caps, radio cabinets, pot handles and washing machine agitators.

- 21
- ▲ 54

Phenol Formaldehyde Resins

A number of synthetic resins used in the manufacture of rubber tires, contact adhesives and paints.

- 21
- ▲ 54

Phthalic Anhydride

Solid, organic dibasic anhydride available in white flake form. Used as raw material for production of alkyd resins, plasticizers and organic intermediates.

- 10 - 16
- ▲ 46 - 49

Pitch

Solid, brilliant black residue of coal tar distillation. Used in road pavement; as raw material for making

LATIN AMERICAN GROUP

enamels to protect buried pipelines, to impregnate paperboard, tiles and fabrics; for construction water-proofing, etc. Available in 250-kilo drums or in bulk.

- 15
- ▲ 48

Plasticizers, Esters, Aliphatic

Liquid esters of aliphatic alcohols and phthalic anhydride. Used to plasticize PVC and other resins. Available in 200-kilo drums.

- 16
- ▲ 48

Plasticizers, Phthalates

A variety of primary phthalate plasticizers are available. Dibutyl and di-isobutyl phthalates are used in adhesives, lacquers, emulsions, heat-sealable paper coatings and in cellophane. Butyl octyl phthalate is a fast fluxing and high solvating vinyl chloride plasticizer. Di-iso-decyl, di-iso-octyl, di-octyl and iso-octyl-iso-decyl phthalates are general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. Available in 200-kilo drums. (Only butyl octyl, dibutyl and di-iso-octyl phthalates are sold in Brazil.)

- 9 - 11 - 16
- ▲ 46 - 47

Plastic Trays

High impact polystyrene used as an inner container for CRYOVAC "S" film-wrapped foodstuffs such as sliced cuts, cut-up poultry, sweets and pastry, sausages and cheese. Sold by the linear meter.

- 8
- ▲ 45

Polyamides

Solid DARAMID—Polyamide based on dimeric acids used for production of varnishes and inks for printing on substrates which present difficulties of adhesion. Also used for production of hot melt adhesives specifically in the shoe industry.

Liquid DARAMID—Polyamide of various viscosities used as epoxy resin curing agents, in production of varnishes, adhesives and molded products.

- 8
- ▲ 45

Polyester Resins

Based on esters of dimeric acids for production of semi-rigid and rigid polyurethane foams. Also a number of polyester resins which are sold to the button industry, boat manufacturers, corrugated laminate manufacturers and tank manufacturers.

- 10 - 21
- ▲ 46 - 54

Polyethylene Film

Embossed and/or printed polyethylene film used as book bindings, table cloths and economy bedspreads.

- 22
- ▲ 55

Polyurethane Foam

Polyurethane and polyester foams are cast and sold either as slabs or as cut pieces for finished mattresses, pillows, and other products for the furniture and automotive industries. Thin sheets which are laminated to textiles are also produced.

- 9
- ▲ 46

Polyvinyl Acetate Resin

A synthetic resin used in latex water paints, and for adhesives, coatings, lacquers and inks.

- 11 - 21 - 22
- ▲ 47 - 54

Portland Cement

Very fine gray powder composed of compounds of lime, alumina, silica and iron oxide. Hardens slowly when mixed into a paste with water and does not require air. Used in all types of construction. Available in multiwall bags.

- 6
- ▲ 42 - 43

Pouches

Square CRYOVAC bags, thicker than the standard bag and vacuumized and sealed by a pouch machine. Type 111 pouches are used mainly for small packages of cheese wedges, frankfurters and sausages.

- 8
- ▲ 45 - 47 - 62

Pudding Powders

Standard chocolate and vanilla puddings, as well as fruit dessert gelatins.

- 17
- ▲ 50 - 61

Resistance Wire

Nickel-chrome alloy wire for electrical resistance applications. Available on spools.

- 7
- ▲ 44

Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

▲ 57

Rum

An alcoholic liquor distilled from fermented molasses and sold under the trademark "Ron Cartavio".

● 30
▲ 61

Sauces and Dressings

Mayonnaise, mustard, vinegar and other table sauces packed in glass jars.

● 17
▲ 50

Sealers

A complete line of concrete, wood-floor, and wall sealers which act both as preservatives and as preparations for further finishes.

● 19 - 22 - 25 - 36
▲ 47 - 52 - 55 - 57 - 61

Seam Dopes

Solvent or water-based liquids used to fix leaking cans. Applied to the flange of cans by brush, spray or felt pad. Available in 200-liter drums.

● 8
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Shortening

An edible fat used for cooking.

● 11 - 17
▲ 47

Shrinking Bags

Made by extrusion of polyvinylidene chloride copolymer (saran). The resulting tubing is cut crosswise and sealed by radio frequency impulse and in automatic bag machine. CRYOVAC bags are heat shrinkable and impermeable to moisture and oxygen. Normally used for vacuum packing of frozen poultry; fresh, cured and smoked meats; and cheese. Available in 1000, 2000 and 5000 unit lots.

● 1 - 8
▲ 42 - 45 - 47 - 61 - 62

Shrinking Films

Polyethylene, polyvinylidene chloride, and polypropylene film for the packaging of toys, phonograph albums, meats, cheeses and bakery items.

● 8
▲ 45 - 62

Side Seam Cements

Thermoplastic resin used as replacement of solder in side seams of cans. Applied manually or by automatic applicators at can body makers. Available in 100-kilo drums and 50- and 30-kilo fiber drums.

● 1 - 8
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Soldering Crystals

Zinc and ammonium chloride crystals for cleaning metal surfaces of cans for better soldering. Available in 100-kilo wooden drums.

● 1 - 8
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Specialty Products

Architectural, construction and maintenance products related to masonry work, including curing, form coating and cleaning compounds; hardeners and bonding agents; construction equipment and accessories.

● 1
▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Stearic Acid

Colorless, odorless, wax-like material used in lubricants, soaps, candles and pharmaceuticals.

● 11
▲ 47

Sugar, Raw

Hard, dry crystals which are odorless and soluble in water. Used as sweetening in the manufacture of food products. Available in bulk, and in jute or multiwall paper bags.

● 30 - 31
▲ 61

Sugar, Refined

Processed sugar cane used particularly in the manufacture of food products as a sweetener. Available in cotton or multiwall paper bags.

● 11 - 30 - 31
▲ 47 - 61

Sulfite Paper

An extensive variety of wrapping papers, in yellow, blue, green, pink and white. One side is smooth-finished and suitable for printing. Available in rolls and reams, in weights from 28 to 90 grams per square meter.

● 39
▲ 53 - 61

Tape and Specialty Backings

Latex saturated paper backings for pressure-sensitive tapes, waterproof sandpaper, release liners, etc. Available with barrier coats, bonding coats, etc.

▲ 62

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

● 19 - 22 - 25 - 36

▲ 47 - 52 - 55 - 57 - 61 - 62

Textile Auxiliaries

Number of chemical compounds useful in slashing and finishing textiles.

● 21 - 22

▲ 53 - 54 - 55

Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

▲ 57

Textile Printing Blankets

Roller Printing Blankets: wide, fabric-and-rubber-laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide, fabric-and-rubber-laminated, continuous, smooth-surfaced belts.

Lapping Blankets: wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high-roll pressure exerted during printing operations.

All blankets available in widths and lengths according to customer specification.

▲ 57

Textiles

Cotton textiles such as poplins, drills, print goods, flannels, sheetings and denims. Finished products go through successive processes such as bleaching, mercerizing, dyeing, roller and screen printing.

● 32 - 34

▲ 61

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

▲ 62

Thinner

Liquid mixture of hydrocarbons and oxygenated solvents. Used as a diluent for paints, lacquers and other finishes. Available in 55-gallon drums, or in bulk.

● 16

▲ 49

Tin

Silver-white ductile metal used in the metal industry.

● 4 - 5

▲ 42

Tissue Papers

Tissue papers in handkerchief, napkin and bathroom grades in white, yellow, light blue and pink. Marketed in unconverted form.

● 20 - 31 - 35 - 37

▲ 53 - 61

Tomato Products

Includes catsup, juice, paste and sauce. Available in cases for retail sale.

● 17 - 18 - 26

▲ 51

Toys

This line consists mostly of dolls made by rotational casting of PVC plastisol resins.

● 22 - 28

▲ 55

Tungsten

A hard, brittle, gray metal also known as wolfram. Used in high-speed tools, electric lamps, dental equipment and penpoints.

● 4 - 5

▲ 42

Urea Formaldehyde

A thermosetting, insoluble, infusible resin made through the combination of urea and formaldehyde. Used in buttons, baking enamels, tableware and textile finishes.

● 21 - 22

▲ 54

Varnishes

A complete line of finishes for interior and exterior use on masonry, metal and wood for protection against water, weather, oil and grease.

● 19 - 22 - 25 - 36

▲ 47 - 52 - 55 - 61

Vinyl Coated Paper

A number of paper products used for wallpaper and shoe manufacturing.

- 22 - 27
- ▲ 55 - 58

Vinyl Film, Supported

A family of plastic products for use in upholstering furniture and automobile seats.

- 9 - 22 - 40
- ▲ 46 - 55 - 63

Vinyl Film, Unsupported

A group of plastic products for bookbinding, wallets, women's handbags and oilcloth.

- 9 - 22 - 27 - 40
- ▲ 46 - 55 - 58 - 63

Vinyl Sheet, Supported

A number of plastic products used for flooring, in buses, buildings and airplanes.

- 9 - 22 - 27
- ▲ 46 - 55 - 59

Vinyl Sheet, Unsupported

Used in hospitals and for baby cribs.

- 9 - 22 - 27
- ▲ 46 - 55 - 59

Vodka

A distilled liquor sold under agreement with Heublein, Inc., Connecticut, under the "Smirnoff" trademark.

- 39
- ▲ 61

Wash Primer

An excellent medium to increase the adhesion properties of the finish coats. Applied by spray and available in one-gallon containers only.

- 19
- ▲ 52

Waterproof Canvas

Waterproof fabric for use on jeeps and as tent material.

- 22
- ▲ 55

Waterproofing and Roofing Materials

A variety of moisture control products for metal, wood and masonry.

- 19
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Wetting Agents, CANSURFASS

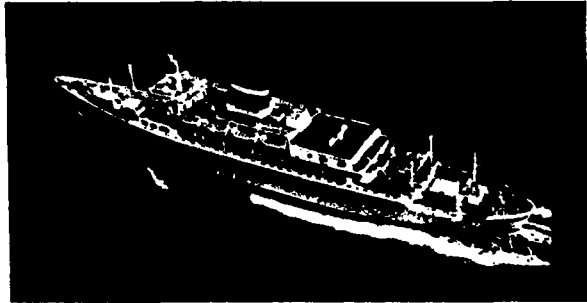
Additive compounds to improve the performance of lining compounds under adverse lining conditions. Available in 2-kilo or one-gallon cans.

- 8
- ▲ 41 - 42 - 45 - 47 - 54 - 57 - 60 - 61 - 62

Wood Lacquers

Finishes used for their decorative and protective properties. Tinting, shading and transparent lacquers available in gallon and quart cans.

- 19 - 22 - 25 - 36
- ▲ 47 - 52 - 57 - 61



GRACE LINE INC.

Grace Line's fleet of 25 modern passenger liners and freighters is the largest serving the Americas exclusively. Frequent and regular sailings connect North American Atlantic and Pacific coast ports with ports in the Caribbean, and with those on the North and West Coasts of South America and the West Coast of Central America. Grace Line offices and agencies are located in major cities of the Western Hemisphere. For additional information consult your agent or write to: Grace Line Inc., 3 Hanover Square, New York, N. Y. 10005.



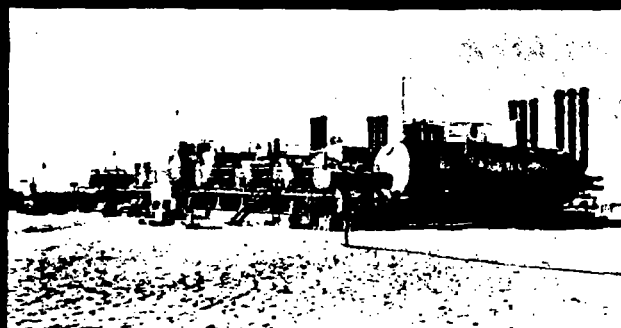
PANAGRA

Serving the Americas since 1928, when it pioneered U.S. air transportation along the west coast of South America, Panagra (Pan American-Grace Airways, Inc.) today operates a scheduled passenger, cargo and mail service linking Panama, Colombia, Ecuador, Peru, Bolivia, Chile and Argentina with the United States. Owned jointly by Pan American World Airways, Inc. and W. R. Grace & Co., Panagra operates more jet flights and carries more passengers than any of its competitors. For additional information, consult your agent or write to: Panagra, 135 E. 42nd Street, New York, N. Y. 10017.

Technology augments the chocolate confectioner's art
CONSUMER PRODUCTS GROUP



Grace papers serve Latin America in many ways
LATIN AMERICAN GROUP



Salt and water are removed from Libyan crude oil in this unit.
GRACE PETROLEUM CORPORATION

SUPPLEMENT 1966

PETROLEUM

TRANSPORTATION

FOOD



CHEMICALS

PAPER

PRODUCT GUIDE



Since publication of the W. R. Grace & Co. **PRODUCT GUIDE** in July, 1966, a number of new facilities have been added to Grace. This supplement describes these plants and the products manufactured and marketed by them.

For additional information and detailed technical data, telephone or write to the appropriate operating unit directly or to W. R. Grace & Co., 7 Hanover Square, New York, New York 10005.

The domestic agricultural chemical operations of the Davison Chemical Division and the domestic operations of the Nitrogen Products Division have been combined to form the Agricultural Products Division. The following new facilities manufacture and market the products indicated.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

Alum, ammonium sulfate, anhydrous ammonia, nitrogen solutions, superphosphate and sulfuric acid.

● Plant

MAINE, Searsport (04974)
Rt. 1, Kidders Point Road
(207) 548-2525

Animal feeds—complete feeds, feed supplements and premixes, GRACE GREENTOWN® fertilizers and other agricultural products.

● Plants

COLORADO, Lucerne (80846)
P. O. Box 52
(303) 352-3260

ILLINOIS, DeKalb (60115)
220 North Seventh Street
(815) 756-6317

ILLINOIS, Rock Falls (61071)
105 Dixon Avenue
(815) 625-4546

INDIANA, Crawfordsville (47933)
2101 East Main Street
(317) EM 2-0594

INDIANA, Logansport (46947)
State Road 35 South
(317) 6279

IOWA, Ames (50010)
P. O. Box 825
(515) 232-4111

IOWA, Exira (50076)
P. O. Box 248
(712) 268-5566

(continued on following page)

▲ Sales Office

MAINE, Searsport (04974)
Rt. 1, Kidders Point Road
(207) 548-2525

▲ Sales Offices

COLORADO, Lucerne (80846)
P.O. Box 52
(303) 352-3260

ILLINOIS, DeKalb (60115)
220 North Seventh Street
(815) 756-6317

ILLINOIS, Rock Falls (61071)
105 Dixon Avenue
(815) 625-4546

IOWA, Cherokee (51012)
P.O. Box 543
(712) 255-5173

IOWA, Iowa City (52240)
P.O. Box 6308 Coralville Branch
(319) 351-2550

IOWA, Waverly (50677)
P.O. Box 615
(319) 352-2515

KANSAS, Garden City (67846)
P. O. Box 964
(316) 276-8236

(continued on following page)

AGRICULTURAL PRODUCTS DIVISION

● **Plants (continued)**

IOWA, Webster (52355)
P. O. Box 85
(319) 667-5411

KANSAS, Garden City (67846)
P. O. Box 954
(316) 276-8236

NEBRASKA, Osceola (68651)
P.O. Box 216
(402) 747-5961

TEXAS, Hereford (79045)
P. O. Box 566
(806) 364-2388

▲ **Sales Offices (continued)**

MINNESOTA, Marshall (56258)
P.O. Box 636
(507) 532-2249

NEBRASKA, Norfolk (68701)
P.O. Box 976
(402) 371-5582

NEBRASKA, York (68467)
York State Bank Building
(402) 362-4466

TEXAS, Hereford (79045)
P. O. Box 566
(806) 364-2388

WISCONSIN, Dodgeville (53533)
618 West Merrimac Street
(608) 935-5731

Field and grass seeds, seed treating equipment and chemicals.

● **Plants**

INDIANA, Carmel (46032)
P. O. Box 368
(317) 846-2527

MISSOURI, St. Joseph (64501)
310 South Third Street
(816) 233-0296

NEW YORK, Buffalo (14210)
567 Exchange Street
(716) 852-4356

▲ **Sales Offices**

INDIANA, Carmel (46032)
P. O. Box 368
(317) 846-2527

GEORGIA, Pelham (30331)
P. O. Box 188
(912) 294-4963

OREGON, Hopmore
Rt. 1, P. O. Box 8 R
(503) 363-4938

Pesticides; bulk mixed and specialty fertilizers; field and grass seeds.

● **Plants**

OREGON, Corvallis (97330)
5225 Hout Street
(Corvallis Airport Industrial Site)
(503) 752-7804

OREGON, Independence (97351)
255 F Street
(503) 838-1816

OREGON, Monroe (97456)
(503) 847-3231

OREGON, Portland (97218)
7737 N.E. Killingsworth Street
(503) 252-3491

OREGON, Roseburg (97470)
356 N.E. Atlanta
(503) 672-4961

▲ **Sales Offices**

OREGON, Corvallis (97330)
5225 Hout Street
(Corvallis Airport Industrial Site)
(503) 752-7804

OREGON, Independence (97351)
255 F Street
(503) 838-1816

OREGON, Monroe (97456)
(503) 847-3231

OREGON, Portland (97218)
7737 N.E. Killingsworth Street
(503) 252-3491

OREGON, Roseburg (97470)
356 N.E. Atlanta
(503) 672-4961



DEWEY AND ALMY CHEMICAL DIVISION

In addition to the plants and sales offices listed on page 41 of the PRODUCT GUIDE, the following facilities manufacture and market POLYFIBRON® printing and mechanical rollers, printing plate adhesives, rubber plate gum and molded products.

● Plants

CALIFORNIA, Huntington Park (90256)
6069 Maywood Avenue
(213) 589-6281

GEORGIA, Chamblee (30005)
5238 Peachtree Road N.E.
(404) 457-5261

ILLINOIS, Chicago (60608)
2512 West 24th Street
(312) 247-5600

MASSACHUSETTS, Marlboro (01752)
33 Hayes Memorial Drive
(617) 481-0900

NEW YORK, Long Island City (11101)
21-24 39th Avenue
(212) 392-5300

MASSACHUSETTS, Marlboro (01752)
33 Hayes Memorial Drive
(617) 481-0900

MINNESOTA, St. Paul (55104)
1821 University Avenue
(612) 648-4216

MISSOURI, St. Louis (63103)
2228 Olive Street
(314) 421-4647

NEW JERSEY, Ho-Ho-Kus (07423)
400 Hollywood Avenue
(201) 445-3626

NEW YORK, Long Island City (11101)
21-24 39th Avenue
(212) 392-5300

NORTH CAROLINA, Charlotte (28209)
215 Manning Drive
(704) 525-0327

▲ Sales Offices

CALIFORNIA, Burlingame (94010)
1141 California Drive
(415) 342-9038

CALIFORNIA, Huntington Park (90256)
6069 Maywood Avenue
(213) 589-6281

FLORIDA, Clearwater (33516)
1828 Audubon Drive
(813) 446-7565

GEORGIA, Chamblee (30005)
5238 Peachtree Road N.E.
(404) 457-5261

ILLINOIS, Chicago (60608)
2512 West 24th Street
(312) 247-5600

MARYLAND, Baltimore (21202)
414 Water Street
(301) 752-8656

OHIO, Cincinnati (45237)
1717 Section Road
(513) 631-1687

OHIO, Cleveland (44107)
14820 Detroit Avenue
(216) 221-2249

PENNSYLVANIA, Philadelphia (19107)
919 Walnut Street
(215) 922-2278

TENNESSEE, Nashville (37205)
200 Woodmont Circle
(615) 297-2713

WASHINGTON, Seattle (98125)
11520 Bothell Way N.E.
(206) 363-6943

WISCONSIN, Milwaukee (53209)
4377 North Teutonia Avenue
(414) 445-0290

GRACE**HATCO CHEMICAL DIVISION**

In addition to the plants and sales offices listed on pages 55 through 57 of the PRODUCT GUIDE, the following facilities manufacture and market printed, laminated and embossed vinyl film and sheeting.

● Plant

CALIFORNIA, Los Angeles (90021)
1200 South Central Avenue
(213) 747-6355

▲ Sales Office

CALIFORNIA, Los Angeles (90021)
1200 South Central Avenue
(213) 747-6355

GRACE**OVERSEAS CHEMICAL DIVISION**

In addition to the plants, sales offices and products listed on pages 67 through 77 of the PRODUCT GUIDE, the following facilities manufacture and market the products indicated.

Air entraining admixtures.

● Plant

PHILIPPINES
W. R. Grace (Philippines) Inc.
16 Cristobal Street
Paco
Manila
Tel. 502 961

▲ Sales Office

PHILIPPINES
W. R. Grace (Philippines) Inc.
16 Cristobal Street
Paco
Manila
Tel. 502 961

Automotive and construction products, including adhesives; sealers and sealants; sound deadeners; underbody coatings.

● Plants

AUSTRALIA
Highley Plastics Proprietary Limited
1 Hale Street
(Botany) Sydney
Tel. 666-8536

Highley Plastics Sales (Victoria) Pty. Ltd.
653 Waterdale Road
(West Heidelberg)
Melbourne
Tel. 45-4978

FRANCE
Teroson et Protection Chimiques S.A.
44 Bis Avenue Jean Jaures
Pantin 93
Tel. 845-85-30

▲ Sales Offices

AUSTRALIA
Highley Plastics Proprietary Limited
1 Hale Street
(Botany) Sydney
Tel. 666-8536

Highley Plastics Sales (Victoria) Pty. Ltd.
653 Waterdale Road
(West Heidelberg)
Melbourne
Tel. 45-4978

FRANCE
Teroson et Protection Chimiques S.A.
44 Bis Avenue Jean Jaures
Pantin 93
Tel. 845-85-30

● Plants (continued)

NEW ZEALAND

Highley Plastics (N.Z.) Limited
 Plastak Sales (N.Z.)
 Western Hutt Road
 Belmont (Lower Hutt)
 Tel. WELLINGTON 65-227

SPAIN

Teroson Española S.L.
 Calle Los Cinquenta No. 32
 Barrio de San Gabriel
 Alicante
 Tel. 22-05-17

Boiler treatment service, including services specializing in the pre-start-up,
 cleaning and maintenance of boilers through chemical treatment.

▲ Sales Offices

SWITZERLAND

Borg Holding AG
 Gubelstrasse 5, Gubelhof
 6300 Zug
 Tel. 48-5-48

ENGLAND

Borg Service Limited
 15 Hercules Road
 Hillington, Uxbridge
 Middlesex
 Tel. UXbridge 3-3947

FINLAND

OY Borg Huolto-Service AB
 Savonkatu, 27
 Kouvola
 Tel. 22-47

FRANCE

Borg Service S.A.
 64 Rue Marjolin
 Lavallois-Perret (Seine)
 Tel. 73-77-541

Chelating agents, pharmaceutical chemicals and surfactants.

● Plants

SWEDEN

Rexolin Chemicals Aktiebolag
 Drottninggatan 72A
 Helsingborg
 Tel. 12-76-40

ENGLAND

Detarex Limited
 Riverside Works
 London Colney
 (St. Albans) Hertfordshire

▲ Sales Offices (continued)

NEW ZEALAND

Highley Plastics (N.Z.) Limited
 Plastak Sales (N.Z.)
 Western Hutt Road
 Belmont (Lower Hutt)
 Tel. WELLINGTON 65-227

SPAIN

Teroson Española S.L.
 Calle Arayaca No. 22
 Madrid
 Tel. 25-30-900

GERMANY

Borg Service G.m.b.H.
 Hildenerstrasse 35a
 4 Düsseldorf-Benarh
 Tel. 71-60-01-03

ITALY

Borg Service S.p.A.
 6 Via Bordigheria
 Milano
 Tel. 84-39-475

SPAIN

Borg Service SAE
 Almirante 10
 Madrid
 Tel. 2-22-11-39

SWEDEN

Borg Service AB
 Drottninggatan 72A
 Helsingborg
 Tel. 12-76-40

▲ Sales Offices

SWEDEN

Rexolin Chemicals Aktiebolag
 Drottninggatan 72A
 Helsingborg
 Tel. 12-76-40

ENGLAND

Detarex Limited
 P.O. Box No. 500
 Berk House
 8 Baker Street
 London W.1
 Tel. HU 66 88

OVERSEAS CHEMICAL DIVISION

Container products, construction materials, flexible packaging products, and POLYFIBRON products.

▲ Sales Office

PORTUGAL

Grace Portuguesa
(Produtos Quimicos y Plasticos) Limitada
Avenida da Republica No. 5 45
Matosinhos
Tel. 93-31-19

Dishwashing and kitchen sanitation products; food manufacturing plant processing products.

▲ Sales Office

JAPAN

Nippon-DuBois K.K.
Azabudai Building
13-3 chome Azabu Iigura-Machi
Minato-Ku
Tokyo
Tel. 563-1171/3

Industrial and retail adhesives, dyes, waxes and polish; pressure sensitive tapes and container products.

● Plant

GREECE

Grace Hellas E.P.E.
Odos Tavros

▲ Sales Office

GREECE

Grace Hellas E.P.E.
6 Aristidou Street
Athens
Tel. Athens 66 002

Polyethylene products, including heavy duty bags; pouches; tubing and film used in the food packaging industry and in other industrial applications.

● Plant

SPAIN

Pilman S.A.
Calle Santa Anna, Sardañola
(Barcelona Province)

▲ Sales Office

SPAIN

Pilman S.A.
Avenida Sarria No. 30, 1°-2a
Barcelona
Tel. 23-06-470

Silica gel and SYLOID® micron sized silicas.

● Plant

JAPAN

Fuji-Davison Chemical Ltd.
No. 1846-2-chome Kozoji-Cho
Kasugai-shi, Aichi-ken
Tel. Kozoji 234-529-451

▲ Sales Office

JAPAN

Fuji-Davison Chemical Ltd.
No. 1846-2-chome Kozoji-Cho
Kasugai-shi, Aichi-ken
Tel. Kozoji 234-529-451



CONSUMER PRODUCTS GROUP

In addition to the plants, sales offices and products listed on pages 80 through 82 of the PRODUCT GUIDE, the following facilities manufacture and market the products indicated.

Marela Ltd. manufactures and markets a variety of pickle products including onions, gherkins, piccalilli and walnuts. Other products include horseradish, olives and salad cream for the retail trade.

● Plant

ENGLAND

Marela Limited
Saunders Ness Road
London E. 14
Tel. East 6021 PABX

▲ Sales Office

ENGLAND

Marela Limited
Saunders Ness Road
London E. 14
Tel. East 6021 PABX

Miller Brewing Company brews and markets premium beer (MILLER HIGH LIFE®) through a national network of distributors and produces GETTELMAN® beer for the Wisconsin area.

● Plants

UNITED STATES

CALIFORNIA, Azusa (91702)
819 North Vernon Avenue
(213) 334-1291

WISCONSIN, Milwaukee (53203)
4000 West State Street
(414) 342-4500

Products of Nailey's Fine Foods Division include canned and convenience foods; pickles, relishes, chips and dips; refrigerated dressings and salads and a line of Mexican foods.

● Plants

UNITED STATES

CALIFORNIA, Los Angeles (90058)
5001 South Soto Street
(213) 582-5121

CALIFORNIA, San Leandro (94577)
1314 Marina Boulevard
(415) 357-7600

MONTANA, Billings (59101)
451 Charles Street
(406) 252-6679

OREGON, Portland (97214)
310 South East 12th Avenue
(503) 234-9609

WASHINGTON, Tacoma (98411)
3303 South 35th Street
(206) 383-1621

WASHINGTON, Spokane (99220)
4120 East Broadway
(509) 535-1761

(continued on following page)

▲ Sales Offices

UNITED STATES

CALIFORNIA, Los Angeles (90058)
5001 South Soto Street
(213) 582-5121

CALIFORNIA, San Leandro (94577)
1314 Marina Boulevard
(415) 357-7600

MONTANA, Billings (59101)
451 Charles Street
(406) 252-6679

OREGON, Portland (97214)
310 South East 12th Avenue
(503) 234-9609

WASHINGTON, Seattle (98134)
3201 Fourth Avenue
(206) 622-6484

WASHINGTON, Spokane (99220)
4120 East Broadway
(509) 535-1761

(continued on following page)

CONSUMER PRODUCTS GROUP

● **Plants (continued)**

CANADA

BRITISH COLUMBIA, Vancouver
1330 East 66th Street
(604) 325-3221

BRITISH COLUMBIA, Vancouver
(Annacis Island)
810 Cliveden Avenue
(604) 521-5536

▲ **Sales Offices (continued)**

WASHINGTON, Tacoma (98411)
3308 South 35th Street
(206) 363-1621

CANADA

BRITISH COLUMBIA, Vancouver
1330 East 66th Street
(604) 325-3221



LATIN AMERICAN GROUP

In addition to the plants, sales offices and products listed on pages 77 (Teroson) and 83 through 95 of the PRODUCT GUIDE, the following facilities manufacture and market the products indicated.

Teroson products — a line of chemical specialties primarily for the automotive and construction industries.

● **Plants**

ARGENTINA

Teroson Argentina S.R.L.
Avenida Velez Sarsfield 5700
Munro, Province de Buenos Aires
Tel. 740-8081

PERU

Teroson-Peru
Giron Arequipa 271
Casilla 4847
Lima
Tel. 78128

▲ **Sales Office**

ARGENTINA

Teroson Argentina S.R.L.
San Martin 570
Capital Federal
Tel. 32-0945

Canned foods, including tomato products and fruit concentrates.

● **Plant**

GUATEMALA

Alimentos Kern de Guatemala S.A.
Km. 6½ Carretera del Atlántico
880182
P.O. Box 379
Guatemala City
Tel. 880-182

▲ **Sales Office**

GUATEMALA

Alimentos Kern de Guatemala S.A.
Km. 6½ Carretera del Atlántico
880182
P.O. Box 379
Guatemala City
Tel. 880-182

Copper and tin concentrates.

● **Mine**

PERU

Minsur Partnership Limited
Estacion Santa Lucia
Via Arequipa

Dishwashing and kitchen sanitation products for use in industry, restaurants, hotels, schools and other institutions.

● **Plant**

MEXICO

DuBois Mexicana, S.A. de C.V.
Km. 15½ Carretera Mexico Pachuca
Santa Clara
Tel. 692170

▲ **Sales Office**

MEXICO

DuBois Mexicana, S.A. de C.V.
Paseo de la Reforma 510 2° Piso
Mexico 6, D.F.
Tel. 14-00-18

Extruded products; plastic trays; polyvinyl chloride (PVC) molded and blown products; polyethylene squeeze tubes.

● **Plant**

BRAZIL

Plastar S.A.
Comercio e Industria de Materiais
e Produtos Plásticos
Rua Manoel Preto 1401
Caixa Postal 12603
São Paulo
Tel 61-1106

▲ **Sales Office**

BRAZIL

Plastar S.A.
Comercio e Industria de Materiais
e Produtos Plásticos
Rua Manoel Preto 1401
Caixa Postal 12603
São Paulo
Tel. 61-1106

Fish meal and oil.

● **Plant**

PERU

Compania Pesquera "La Gaviota" S.A.
Carretera Paracas
11th Km.
Pisco, Paracas

Tin ore.

● **Mines**

BOLIVIA

Estalsa, S.A.
Avicaya Placer

Avicaya Ltda.
Avicaya Lode

▲ **Sales Office**

BOLIVIA

Estalsa, S.A.
Casilla 852
Calle Mercado # 1099
La Paz
Tel. 25312

Vinyl products including floor tile; supported and unsupported film and sheeting.

● **Plant**

VENEZUELA

Plásticos y Derivados C.A. (PLAYDECA)
Final De La Calle Bolivar
Baruta - Estado Miranda
Tel. 77.20.21

▲ **Sales Office**

VENEZUELA

Plásticos y Derivados C.A. (PLAYDECA)
Centro Comercial Del Este
Local 28 - Salana Grande
Caracas
Tel. 71.91.16

SUPPLEMENT | 1966



PRODUCT GUIDE

**ACTION TO
IMPROVE
LEGALITY**

PETROLEUM

1968

TRANSPORTATION

FOOD

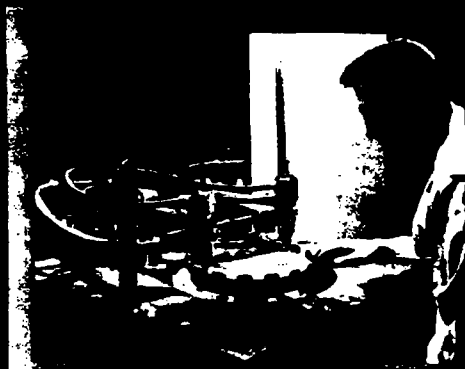
GRACE

CHEMICALS

PAPER

PRODUCT GUIDE

Coating container tops with
Dewey and Almy sealants
in a West German plant



Grain fertilizers
increase crop yields
AGRI-CULTURAL CHEMICAL GROUP



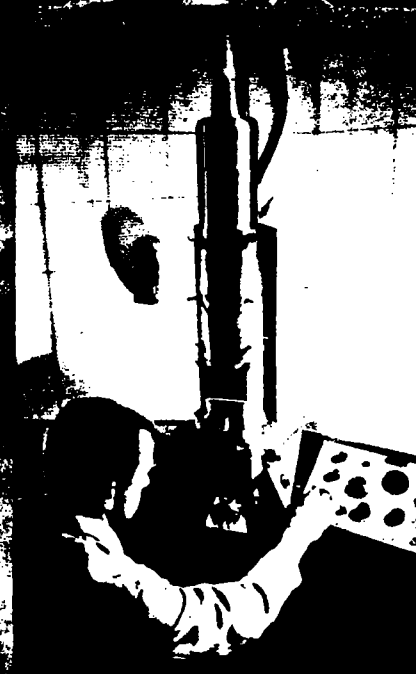
Filling aerosol cans
with penetrating oil
at Teroson in West Germany
VERBODEN CHEMICAL DIVISION



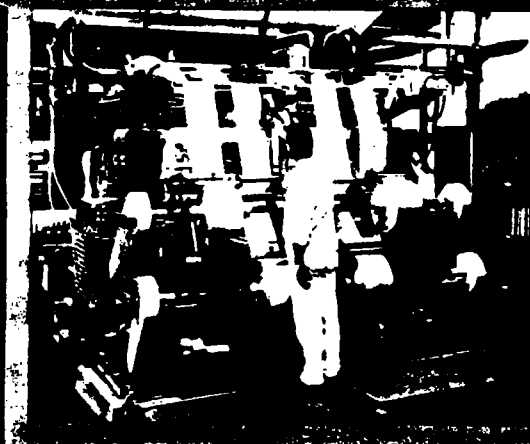
Water treatment
chemicals are
manufactured to suit
each customer's
requirements
WATER TREATMENT GROUP



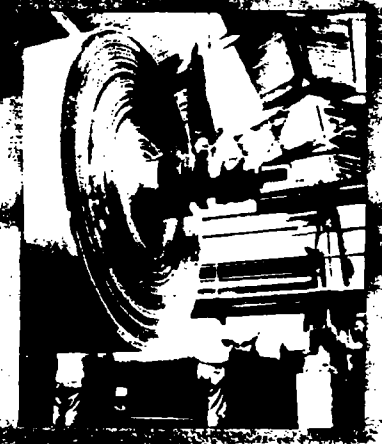
Electron microscope
studies at the
Washington
Research Center
RESEARCH DIVISION



Production of molecular sieves
Davison Chemical Division
INDUSTRIAL CHEMICALS GROUP



Quality control is a
byword in Grace packaging
CRYOVAC DIVISION



Grace papers serve many
Latin American markets
LATIN AMERICAN GROUP



1968

PRODUCT GUIDE

W. R. GRACE & CO.

7 HANOVER SQUARE NEW YORK, N. Y. 10005

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NOTES

In this publication, W. R. Grace & Co. refers to one or more of its subsidiary companies or affiliates. All of Grace's operations outside of the United States, as well as some of its United States operations, are carried on through subsidiaries and affiliates. The names of subsidiary companies are given where useful.

We believe the information contained herein to be accurate, but no representations or warranties of any kind are made with respect to such information, and neither Grace nor any of its subsidiaries or affiliates shall be liable on account of the use thereof. Grace does not hereby suggest, recommend or consent to the use of any process or to the manufacture, use or sale of any product in violation of existing or future patents owned by Grace or others.

Trademarks and trade names are indicated as registered or unregistered with regard to their status in the United States of America. No other statement concerning the registry or status in other countries is made or intended, nor should it be inferred from the information contained herein.

Printed in the United States of America

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The Worlds of Grace

The story of W. R. Grace & Co. began in 1850 when William Russell Grace decided to seek his fortune in South America. With a group of Irish emigrants, Grace sailed for Callao, Peru, where he embarked upon a business career that led to the founding of W. R. Grace & Co. in 1854.

W. R. Grace & Co. first gained preeminence in Latin American shipping and commodity trading and over the years expanded its activities to include international manufacturing, shipping, banking and air transportation.

Beginning in the early 1950's chemicals became another World of Grace. Since then, the company has established a strong position in the manufacturing and marketing of agricultural and industrial chemicals, specialty chemicals, and plastics and packaging materials. Today chemical operations account for more than two thirds of consolidated company sales and revenues.

W. R. Grace & Co.'s imaginative and innovative progress also includes the worlds of domestic and foreign consumer products, paper manufacturing, and mining in Latin America; petroleum and nuclear energy.

These many Worlds of Grace are made up of over 67,660 people working in more than 375 plants, 600 sales offices and distribution facilities in 47 states and 46 countries.

Research and Tomorrow's Technology

Tomorrow's technology lies in the frontiers of today's knowledge. The continuing growth of the Worlds of Grace depends on the Research Division's constant search for new processes and products for tomorrow's needs. The Group's varied activities benefit Grace customers through continuing product development and technical services.

The hub of this research program is the Washington Research Center at Clarksville, Maryland. Here, and at other laboratories and experimental centers throughout the world, more than 1,200 scientists, technicians and supporting staff conduct basic and applied research investigating new approaches to product and process development that will give tomorrow's markets that *extra touch of Grace*.

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Products

Products are alphabetically indexed on pages 7 through 28. The Index refers the reader to the pages in the Operating Unit sections, where product descriptions will be found. Index terms within parentheses, i.e. Acrylic Copolymer Emulsions (DAREX Coating Emulsions), Acid Resisting Grouts (Floor Materials); are the specific headings under which product listings will be found within the Operating Unit sections.

Principal Trademarks and Trade Names

The principal trademarks and trade names of W. R. Grace & Co., its subsidiaries and its affiliated companies are listed alphabetically in the Index, together with their descriptive product names. Grace trademarks registered in the U.S. are indicated by the symbol ®; unregistered Grace trademarks are indicated by an asterisk (*). Trademarks and trade names listed in the Index appear throughout the book in capital letters. The Operating Unit sections provide general product information, but do not usually list the trade names.

Grace Operating Units

The Operating Units which manufacture or market products are indexed separately on pages 4 and 5.

Plants and Sales Offices

At the beginning of each Operating Unit section, Plant and Sales Office facilities are listed alphabetically and numbered. To determine which of these facilities handles a specific product, note the number references shown directly under the product description; then refer to the corresponding numbers in the list of Plants and Sales Offices at the beginning of that particular Operating Unit section.

Example: Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

● 9 - 23 - 34 - 45
▲ 73 - 88 - 152

Where the number references to Plants and Sales Offices apply to several products listed consecutively, they appear at the end of that product group.

Legend:

- denotes number reference to Plant locations.
- ▲ denotes number reference to Sales locations.

For additional information and detailed technical data, contact the appropriate operating unit directly or write W. R. Grace & Co., 7 Hanover Square, New York, New York 10005.

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*Trademark of W. R. Grace & Co.

®Registered U.S. Trademark of W. R. Grace & Co.

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Tel. 791-661
- 3 Cresco Fertilizers Ltd.
Cortio Quay
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Tel. 7-2901
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Tel. 965
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- 6 Societe Atlantique d'Engrais
Chimiques
Boite Postale n° 160
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Tel. 25-39-57

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- 7 Caribe Nitrogen Corporation
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Tel. Guanica 821-3200
- 8 Ochoa Fertilizer Co., Inc.
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19th and Somers
(402) 721-3260
- 79 NEBRASKA, Osceola (68651)**
Walnut Grove Products
P. O. Box 216
(402) 747-5961
- 80 NEBRASKA, Norfolk (68701)**
Walnut Grove Products
P. O. Box 33
(402) 371-2290
- 81 NEW YORK, Buffalo (14211)**
Rudy Patrick (Whitney)
52 Leslie Street
(716) 896-1111
- 82 NORTH CAROLINA, Cary (27511)**
P. O. Box 357
(919) 467-2371
- 83 NORTH CAROLINA, Statesville (28677)**
P. O. Box 1163
(704) 872-6361
- 84 NORTH CAROLINA, Wilmington (28402)**
P. O. Box 368
(919) 762-5258
- 85 NORTH CAROLINA, Wilmington (28401)**
Carolina Nitrogen Corp.
P. O. Box 630
(919) 763-0171
- 86 NORTH DAKOTA, Devils Lake (58301)**
Kurda Mills
Box 890
(701) 662-4071
- 87 NORTH DAKOTA, Minot ((58701))**
Kurda Mills
P. O. Box 225
(701) 836-8211
- 88 NORTH DAKOTA, Spiritwood (58481)**
(Jamestown, N. D.)
Kurda Mills
(701) TE 6-8211
- 89 OHIO, Alliance (44601)**
Freshley Road, P.O. Box 599
(216) TA 1-3550
- 90 OHIO, Columbus (43219)**
3355 E. Fifth Ave.
(614) 235-2379
- 91 OHIO, Findlay (45840)**
E. Bigelow Ave., P.O. Box 86
(419) GA 2-5232
- 92 OREGON, Halsey (97348)**
Rudy Patrick
820 First Street
(503) 369-2251
- 93 OREGON, Harrisburg (97446)**
Rudy Patrick
5450 Bowers Road
(503) 995-6334
- 94 OREGON, Independence (97351)**
Rudy Patrick
225 E Street
(503) 838-1861
- 95 OREGON, Portland (97218)**
Miller Products
7737 N.E. Killingsworth St.
(501) 252-3491
- 96 SOUTH CAROLINA, Charleston (29402)**
P. O. Box 858
(802) 722-3321
- 97 SOUTH DAKOTA, Westport (57408)**
Kurda Mills
P. O. Box 188
(605) 225-8359
- 98 TENNESSEE, Knoxville (37919)**
Rudy Patrick
P. O. Box 10062
(615) 588-2489
- 99 TENNESSEE, Memphis (38127)**
P. O. Box 27147
(901) 357-2311
- 100 TENNESSEE, Nashville (37209)**
P. O. Box 7665
(615) 269-4536
- 101 TEXAS, Big Spring (79720)**
P. O. Box 1311
(915) 267-5218
- 102 TEXAS, Garland (75040)**
Rudy Patrick
414 Avenue A., P.O. Box 218
(214) 276-6165
- 103 TEXAS, Hereford (79045)**
Farr Better Feeds
P. O. Box 566
(806) 364-3890
- 104 TEXAS, Littlefield (79339)**
P. O. Box 787
(806) 385-4459
- 105 TEXAS, Odessa (79760)**
Southwest Fertilizer
P. O. Box 3761
(915) 337-1372
- 106 TEXAS, Plainview (79072)**
P. O. Box 1298
(806) CA 4-9281
- 107 VIRGINIA, Chesapeake (23506)**
P. O. Box 5007
(703) 545-7391
- 108 WASHINGTON, Moses Lake (98837)**
Rudy Patrick
504 Commercial Street
(509) 765-4581
- 109 WASHINGTON, Quincy (98848)**
Rudy Patrick
P. O. Box 607
6th & East Division
(509) 787-2212
- 110 WASHINGTON, Sunnyside (98944)**
Rudy Patrick
105 S. 11th St., P.O. Box 538
(509) 837-4221
- 111 WASHINGTON, Touchet (99360)**
Rudy Patrick
P.O. Box 106
(509) 394-2321

▲ Sales Offices

AUSTRALIA

- 112 Cresco W. A.**
2-6 Railway Parade
Bayswater (Perth) W. A.
Tel. 791-661
- 113 Cresco Fertilizers Ltd.**
110 North Terrace
Adelaide, S.A.
Tel. 51-3061
- 114 Cresco Fertilizers Ltd.**
38 Fenwick Street
Geelong, Victoria
Tel. 9-81-51

A Sales Offices (continued)

- 115** Cresco Fertilizers Ltd.
Berran Terrace
Box 352
Port Lincoln, S. A.
Tel. 965
- 116** Cresco Fertilizers Ltd.
Box 37
Wallaroo, S A.
Tel. 120
- BERMUDA**
- 117** Federation Chemicals Limited
P.O. Box 314
Hamilton
- FRANCE**
- 118** Societe Atlantique d'Engrais
Chimiques
38 Rue de Bassano
Paris 8e
Tel. 359-05-89
- PUERTO RICO**
- 119** Caribe Nitrogen Corporation
P.O. Box 3128
G. P. O. San Juan
Tel. San Juan 776-6020
- 120** Ochoa Fertilizer Co., Inc.
Avenida Munoz Rivera, Stop 27
Hato Rey
Tel. San Juan 767-3205
- TRINIDAD**
- 121** Federation Chemicals Limited
Independence Square
P.O. Box 952
Port-of-Spain
Tel. Pos 36252
- UNITED STATES**
- 122** ALABAMA, Guntersville
(35976)
Rudy Patrick
P.O. Box 581
(205) 582-5181
- 123** ARKANSAS, North Little Rock
(72115)
Rudy Patrick
1120 Main St.
(501) 374-0301
- 124** ARKANSAS, Springdale
(72764)
Rudy Patrick
120 Graham Street
(501) 751-4437
- 125** COLORADO, Lucerne (80646)
Farr Better Feeds
P.O. Box 52
(303) 352-3260
- 126** FLORIDA, Bartow (33830)
P.O. Box 471
(813) 533-5171
- 127** FLORIDA, Fort Pierce (33451)
P. O. Box 36
(906) 461-7020
- 128** FLORIDA, Tampa (83601)
34th St. & 3rd Ave.
(813) 248-3101
- 129** GEORGIA, Atlanta (30310)
Rudy Patrick
609 Murphy Ave. S.W.
P. O. Box 10737, Station A
(404) 755-1645
- 130** GEORGIA, Pelham (30331)
Rudy Patrick
P. O. Box 188
(912) 294-4953
- 131** IDAHO, Caldwell (83605)
Rudy Patrick
Paynter & Aven Streets
(208) 459-9041
- 132** IDAHO, Fruitland (83619)
Miller Products
P. O. Box 38
(208) 452-1263
- 133** IDAHO, Nampa (83651)
Rudy Patrick
906 Front Street
(208) 466-9218
- 134** IDAHO, Twin Falls (83301)
Rudy Patrick
202 Fourth Avenue South
(208) 733-8055
- 135** ILLINOIS, Chicago (60601)
75 E. Wacker Drive
(312) 372-6424
- 136** ILLINOIS, DeKalb (60115)
DeKalb
220 North Seventh St.
(815) 756-6317
- 137** ILLINOIS, Decatur (62526)
P. O. Box 2208
(217) 877-7451
- 138** ILLINOIS, Galesburg (61401)
P. O. Box 1072
(309) 342-1148
- 139** ILLINOIS, Grand Ridge (61325)
P-A-G
(815) 249-6820
- 140** ILLINOIS, Henry (61537)
P. O. Box 167
(309) 364-2361
- 141** ILLINOIS, Mount Vernon
(62864)
Rudy Patrick
10th & Casey Sts., P. O. Box 783
(618) 244-0127
- 142** ILLINOIS, Princeton (61356)
Rudy Patrick
R. R. 1, P. O. Box 404
(815) 872-1612
- 143** ILLINOIS, Rock Falls (61071)
DeKalb
105 Dixon Avenue
(815) 625-4546
- 144** INDIANA, Carmel (46032)
Rudy Patrick
Box 368
(317) 846-2527
- 145** INDIANA, Edinburg (46124)
Blue River Feeds
Shelby & Center Cross Sts.
(812) 526-5507
- 146** INDIANA, Fritchton (47591)
Blue River Feeds
P. O. Box 183, Vincennes
(812) 726-2482
- 147** INDIANA, Hillsboro (47949)
Blue River Feeds
P. O. Box 74
(317) 798-3792
- 148** INDIANA, Logansport (40947)
Blue River Feeds
State Rd. 35 South
(219) 753-6279
- 149** INDIANA, New Albany (47150)
Grant Line Rd., P. O. Box 350
(812) 945-6671
- 150** INDIANA, Campbellsburg
(47108)
P. O. Box 22
(812) 679-2801
- 151** INDIANA, Armstrong (47712)
R. R. #7, Evansville
(812) 963-3428
- 152** INDIANA, Chandler (47610)
R. R. #2-State Rd. 62W
(812) 925-6413
- 153** INDIANA, Ft. Branch (47533)
400 S. McCreary St.
(812) 753-4291
- 154** INDIANA, Scottsburg (47170)
R. R. #3
(812) 752-4951
- 155** INDIANA, Fillmore (46128)
(317) 246-6126
- 156** IOWA, Atlantic (50022)
Walnut Grove Products
201 Linn Street
(712) 243-1030

- 157 IOWA, Cherokee (51012)**
Walnut Grove Products
P. O. Box 543
(712) 255-5173
- 158 IOWA, Grinnell (50112)**
Rudy Patrick
829 Spring St., P. O. Box 148
(515) 238-5379
- 159 IOWA, Iowa City (52240)**
Walnut Grove Products
P. O. Box 6308
Coralville Branch
(319) 351-2550
- 160 IOWA, Monroe (50170)**
P-A-G
(515) 259-2131
- 161 IOWA, Perry (50220)**
P. O. Box 308
(515) HO 5-3516
- 162 IOWA, Sioux City (51102)**
Rudy Patrick
21st & Clark, P. O. Box 844
(712) 255-4270
- 163 IOWA, Waverly (50677)**
Walnut Grove Products
P. O. Box 615
(319) 352-2515
- 164 IOWA, Waverly (50677)**
P-A-G
Box 665
(319) 352-1020
- 165 KANSAS, Garden City (67846)**
Farr Better Feeds
P. O. Box 954
(316) 276-8236
- 166 KANSAS, Hutchinson (67501)**
Rudy Patrick
Jefferson & D Sts.
P. O. Box 568
(316) 663-4469
- 167 KANSAS, Wichita (67218)**
P. O. Box 4045
(316) 838-4239
- 168 KENTUCKY, Franklin (42134)**
P-A-G
Route 3
(502) 586-4401
- 169 KENTUCKY, Irvington (40146)**
P. O. Box 362
(502) 547-4171
- 170 KENTUCKY, Owensboro (42301)**
1425 E. 12th St.
P. O. Box 1503
(502) 683-6938
- 171 MAINE, Searsport (04974)**
Rt. 1, Kidders Point Road
(207) 548-2525
- 172 MARYLAND, Baltimore (21203)**
(21226)
Hill Plant
(301) 355-6161
- 173 MARYLAND, Baltimore**
101 North Charles Street
(301) 727-3900
- 174 MICHIGAN, Lansing (48904)**
2401 North High Street
(517) 482-0828
- 175 MINNESOTA, Marshall (56258)**
Walnut Grove Products
P. O. Box 636
(507) 532-2249
- 176 MISSOURI, Cameron (64429)**
P. O. Box 13
(816) 632-7261
- 177 MISSOURI, Carrollton (64633)**
19th and Sommers
(816) 542-0540
- 178 MISSISSIPPI, Columbus (39701)**
Rudy Patrick (Sawan)
920 Fourth St. South
(601) 328-5010
- 179 MISSOURI, Corder (64021)**
(816) 394-4931
- 180 MISSOURI, Houstonia (65333)**
(816) 568-3431
- 181 MISSOURI, Jefferson City (65101)**
Rudy Patrick
1011 West Miller Street
(314) 636-3309
- 182 MISSOURI, Joplin (64802)**
P. O. Box 1406
(417) MA 4-6900
- 183 MISSOURI, Kansas City (64101)**
Rudy Patrick
1212 West 8th Street
(816) 842-6830
- 184 MISSOURI, Malta Bend (65339)**
(816) 595-2260
- 185 MISSOURI, Maryville (64468)**
P. O. Box 36
(816) 582-3854
- 186 MISSOURI, St. Joseph (64501)**
Rudy Patrick
320 South Third St.
(816) 233-0296
- 187 MISSOURI, St. Louis (63105)**
7701 Forsythe Boulevard
(314) 863-9500
- 188 MISSOURI, Trenton (64683)**
P. O. Box 220
(816) 359-3316
- 189 MISSOURI, Triplett (65286)**
(816) 634-2731
- 190 MISSOURI, Waverly (64096)**
P. O. Box 132
(816) 493-2500
- 191 NEBRASKA, Fremont (68025)**
P-A-G
19th & Somers
(402) 721-3260
- 192 NEBRASKA, Norfolk (68701)**
Walnut Grove Products
P. O. Box 976
(402) 371-5582
- 193 NEBRASKA, York (68467)**
Walnut Grove Products
118 West 8th Street
(402) 362-4466
- 194 NEW YORK, Buffalo (14210)**
Rudy Patrick
(Craver Dickinson)
567 Exchange Street
(716) 852-4356
- 195 NEW YORK, Buffalo (14211)**
Rudy Patrick (Whitney)
52 Leslie Street
(716) 896-1111
- 196 NORTH CAROLINA, Cary (27511)**
P. O. Box 357
(919) 467-2371
- 197 NORTH CAROLINA, Charlotte (28201)**
Rudy Patrick
P. O. Box 10603
(704) 333-0196
- 198 NORTH CAROLINA, Raleigh (27602)**
P. O. Box 68
(919) 834-3131

▲ Sales Offices (continued)

- 199 NORTH CAROLINA,**
Statesville (28677)
P. O. Box 1163
(704) 872-6361
- 200 NORTH CAROLINA,**
Wilmington (28401)
Carolina Nitrogen Corp.
Wachovia Bank & Trust Bldg.
(919) 763-0171
- 201 NORTH CAROLINA,**
Wilmington (28402)
P. O. Box 368
(919) 762-5258
- 202 OHIO, Bowling Green (43402)**
P-A-G
P. O. Box 176
241 North Main Street
(419) 352-5208
- 203 OHIO, Columbus (43216)**
1465 East 17th Avenue
(614) 294-4413
- 204 OKLAHOMA, Chickasha**
(73018)
102 N. First St.
(405) 224-4273
- 205 OKLAHOMA, Muskogee**
(74401)
P. O. Box 456
(918) 683-1022
- 206 OKLAHOMA, Tulsa (74107)**
P. O. Box 9416
(918) 446-9254
- 207 OREGON, Corvallis (97330)**
Rudy Patrick
5225 Hoyt Street
(503) 752-7804
- 208 OREGON, Halsey (97348)**
Rudy Patrick
820 First Street
(503) 369-2251
- 209 OREGON, Harrisburg (97446)**
Rudy Patrick
5450 Bowers Road
(503) 996-6334
- 210 OREGON, Hopmere (97305)**
Rudy Patrick
Route 1, Box 8R
(503) 363-4938
- 211 OREGON, Independence**
(97351)
Rudy Patrick
225 E Street
(503) 838-1861
- 212 OREGON, Medford (97501)**
Miller Products
P. O. Box 253
(503) 779-1735
- 213 OREGON, Monroe (97456)**
Rudy Patrick
(503) 847-3231
- 214 OREGON, Plainview (97377)**
Rudy Patrick
R. 1, Shedd
(503) 258-5820
- 215 OREGON, Portland (97218)**
Miller Products
7737 N.E. Killingsworth
(503) 252-3491
- 216 OREGON, Roseburg (97470)**
Rudy Patrick
P. O. Box 1062
(503) 872-4961
- 217 OREGON, Shaw (97325)**
Rudy Patrick
R. 1, P. O. Box 468, Aumsville
(503) 364-8951
- 218 SOUTH CAROLINA,**
Charleston (29402)
P. O. Box 858
(803) 722-3321
- 219 TENNESSEE, Knoxville**
(37919)
Rudy Patrick
P. O. Box 10062
(615) 588-2489
- 220 TENNESSEE, Memphis**
(38103)
147 Jefferson Avenue
(901) 527-4541
- 221 TENNESSEE, Nashville**
(37209)
P. O. Box 7665
(615) 269-4536
- 222 TEXAS, Amarillo (79109)**
P. O. Box 7488
(806) 355-6551
- 223 TEXAS, El Paso (79983)**
Southwest Fertilizer
P. O. Box 9218
(915) 532-5604
- 224 TEXAS, Garland (75040)**
Rudy Patrick
414 Avenue A, P. O. Box 218
(214) 276-6165
- 225 TEXAS, Hereford (79045)**
Farr Better Feeds
P. O. Box 566
(806) 364-3890
- 226 TEXAS, Lubbock (79401)**
Southwest Fertilizer
Route 3, P. O. Box 191
(806) 762-0691
- 227 UTAH, Delta (84624)**
Rudy Patrick
(801) 864-5391
- 228 VIRGINIA, Norfolk (23501)**
P. O. Box 1321
(703) 622-5752
- 229 VIRGINIA, South Hill (23970)**
P. O. Box 277
(703) 447-3314
- 230 WASHINGTON, Moses Lake**
(98837)
Rudy Patrick
504 Commercial Street
(509) 756-4581
- 231 WASHINGTON, Quincy (98848)**
Rudy Patrick
6th & East Division
P. O. Box 60
(509) 787-2212
- 232 WASHINGTON, Sunnyside**
(98944)
Rudy Patrick
105 South 11 St., P. O. Box 538
(509) 837-4221
- 233 WASHINGTON, Touchet**
(99360)
Rudy Patrick
P. O. Box 106
(509) 394-2321
- 234 WASHINGTON, Yakima**
(98901)
Miller Products
P. O. Box 614
(509) 248-5831
- 235 WISCONSIN, Dodgeville (53533)**
Walnut Grove Products
P. O. Box 121
(608) 935-3318
- CANADA**
- 236 Ontario, Tecumseh**
P-A-G
Box 3006
(519) 735-9753

AMERICAN BREEDERS SERVICE, INC.

Animal insemination service for dairy and beef cattle.

Headquarters

DeForest, Wisconsin 53532
(608) 846-3721

● Plant

UNITED STATES

237 WISCONSIN, DeForest (53532)
(608) 846-3721

▲ Sales Offices

COLOMBIA

238 Carrera 8 No. 13-42
Bogota, D.E.
Tel. 42-32-24

NICARAGUA

239 4a Ave. Sur. Oeste
No. 401
Managua, D.N.
Tel.

SPAIN

240 Calle Calaf 48-1-2
Barcelona
Tel. 2278752

VENEZUELA

241 Edificio Yonekura, Apto. 71
Av. 4 Bellavista
Maracaibo, Edo. Zulia
Tel. 81719

UNITED STATES

242 ALABAMA, Dothan (36301)
Route 5, Box 288-A
(205) 792-6019

243 ARKANSAS, Eudora (71640)
(501) EL 5-4634

244 CALIFORNIA, Fresno (93705)
3692 W. Shields Ave.
(209) 264-8608

245 CALIFORNIA, Modesto (95352)
573 Tully Rd.
P. O. Box 3717
(209) 529-3736

246 CALIFORNIA, Palo Alto
(94303)
2425 Pulgas Ave.
(415) 322-6278

247 CALIFORNIA, San Jose
(95127)
361 Valley View Ave.
(408) 258-7911

248 CALIFORNIA, Sebastopol
(95472)
6314 Lone Pine Rd.
(707) 823-6056

249 COLORADO, Longmont (80501)
814 Hillside Dr.
(303) 776-4248

250 FLORIDA, Jacksonville (32207)
4138 Piper Drive
(904) 733-2882

251 FLORIDA, Winter Park (32789)
1822 Maywood Road
(305) 647-2007

252 GEORGIA, Athens (30604)
316 Fortson Drive
(404) 546-1191

253 HAWAII, Waianae, Oahu
(96792)
P. O. Box 257
587-115

254 ILLINOIS, Freeport (61032)
P. O. Box 578
(815) 232-9980

255 ILLINOIS, Mt. Prospect (60056)
401 E. Prospect
(312) 259-0810

256 INDIANA, Lamar (47550)
P. O. Box 166
(812) 529-2555

257 INDIANA, South Whitley
(46787)
701 No. Calhoun St.
(219) 723-4383

258 IOWA, Hampton (50441)
134 Windsor Blvd.
(515) 456-4624

259 KANSAS, Hiawatha (66434)
Route 2
(913) 742-3335

260 KANSAS, Hillsboro (67063)
307 N. Madison
(316) 947-3373

261 KANSAS, Overland Park
(66204)
6900 W. 80th St.
(913) 649-3685

262 KANSAS, Wichita (67212)
557 Red Barn Lane
(316) 722-3171

263 KENTUCKY, Smithfield
(40068)
(502) 824-6271

264 MICHIGAN, Battle Creek
(49017)
Route 4, Box 622
(616) 721-3265

265 MINNESOTA, Almelund
(55002)
(612) 583-2505

266 MINNESOTA, Chatfield
(55923)
228 Harwood Ave. N.E.
(507) 867-3559

267 MINNESOTA, Forest Lake
(55025)
Box 189
(612) 464-4208

268 MINNESOTA, Hutchinson
(55350)
86 McLeod Ave.
(612) 896-4353

269 MISSISSIPPI, Tupelo
(38801)
401 Maynard Dr.
Box 842
(601) 842-0731

270 MISSOURI, Springfield (65804)
1258 East Greenwood
(417) TU 1-7623

271 MONTANA, Billings (59102)
P. O. Box 20496
(406) 259-9954

272 MONTANA, Miles City (59301)
Professional Building
P. O. Box 794
(406) 232-4400

273 NEBRASKA, Gothenburg
(69138)
Route 1, Box 7-A
(308) 537-2758

274 NEBRASKA, Omaha (68107)
829 Livestock Exchange Blvd.
(402) 734-1757

275 NEW HAMPSHIRE, Stratham
(03885)
Stratham Heights Road
(603) 772-3970

276 NEW MEXICO, Albuquerque
(87102)
Rt. 1, P. O. Box 6416
(505) 636-2771

277 NEW YORK, Honeoye Falls
(14472)
56 York Street
(716) 624-3675

278 NEW YORK, Laurens (13796)
R. D. 1
(607) 263-5518

- | | | |
|--|--|---|
| 279 NEW YORK, Oneonta (13820)
105 Oneida St.
(607) 432-4382 | 286 SOUTH CAROLINA, Rock Hill
(29730)
1191 India Hook Rd.
(803) 328-1785 | 293 WISCONSIN, Appleton (54911)
1107 Gillett Street
(414) 739-4577 |
| 280 NORTH CAROLINA,
Black Mountain (28711)
120 West State Street
(704) 669-8728 | 287 SOUTH DAKOTA, Armour
(57313)
R. R. 1
(605) 67R | 294 WISCONSIN, De Forest
(53532)
(608) 846-3721 |
| 281 NORTH DAKOTA, Mandan
(58554)
909 1st Avenue N.W.
(701) 663-6433 | 288 TENNESSEE, Lebanon (37067)
801 Castle Heights Ave.
(615) 444-8722 | 295 WISCONSIN, Dodgeville
(53533)
614 West Fountain Street
(608) 935-5557 |
| 282 OKLAHOMA, Roseston (73855)
(405) LE 3-2920 | 289 TEXAS, Amarillo (79109)
2100 Polk Street
(806) 372-4363 | 296 WISCONSIN, Fall Creek
(54742)
Route 1
(715) 877-4492 |
| 283 OREGON, Portland (97266)
9139 S.E. Foster Rd.
P. O. Box 68008
(503) 771-6522 | 290 TEXAS, La Grange
Route No. 2
Box 250
(713) CH 9-2787 | 297 WISCONSIN, Fort Atkinson
(53538)
202 Memorial Drive
(414) 563-3337 |
| 284 PENNSYLVANIA,
Mechanicsburg (17055)
411 Reservoir Rd.
(717) 766-2272 | 291 TEXAS, Weatherford (76086)
P. O. Box 232
(817) 594-7020 | 298 WISCONSIN, Madison (53704)
P. O. Box 3143
(608) 249-2176 |
| 285 PENNSYLVANIA,
Tunkhannock (18657)
P. O. Box 1
(717) 836-7791 | 292 UTAH, Sandy (84070)
1407 E. 8730 South
(801) 255-7253 | 299 WYOMING, Sheridan (82801)
380 Smith St.
(307) 674-6714 |

PRODUCTS

Agricultural Surfactant - SWFSPREAD

A liquid, non-ionic wetting, penetrating and dispersing agent for use with agricultural and garden herbicides. Available in 1-, 5-, 30- and 55-gallon containers.

- 105
- ▲ 146 - 147 - 174 - 218 - 223 - 226

Aluminum Sulfate (Alum)

A colorless, odorless, crystalline, water-soluble solid used in sizing paper and for numerous other industrial applications.

- 67
- ▲ 171

Ammonium Nitrate

Solid, prilled nitrogen fertilizer containing 33.5% nitrogen. Available in 50-, 80- and 100-pound multiwall paper bags and in bulk. Also available in industrial grade.

- 85
- ▲ 127 - 128 - 135 - 137 - 140 - 149 - 150 - 151
152 - 153 - 154 - 155 - 156 - 157 - 159 - 163
167 - 169 - 170 - 172 - 173 - 174 - 175 - 182
185 - 187 - 188 - 198 - 199 - 200 - 201 - 203
204 - 205 - 206 - 218 - 220 - 221 - 222 - 223
228 - 229

Ammonium Nitrate Limestone (Calcium Ammonium Nitrate)

Solid, prilled fertilizer containing 20.5% nitrogen as well as secondary plant food elements of calcium and magnesium. Available in 100-pound multiwall paper bags and in bulk.

- 85
- ▲ 127 - 128 - 135 - 146 - 173 - 187 - 198 - 199
200 - 201 - 218 - 220 - 228 - 229

Ammonium Sulfate

Solid crystalline nitrogen fertilizer containing 21% nitrogen. Used as a direct fertilizer and in formulating mixed and blended fertilizers.

- 7 - 9 - 67 - 71
- ▲ 119 - 120 - 121 - 127 - 128 - 140 - 149
171 - 173 - 174 - 182 - 200 - 215 - 223

Anhydrous Ammonia

Liquefied gas, stored and shipped as a liquid at -28°F under refrigeration or under pressure; contains 82% nitrogen, highest N-content fertilizer available. Used as a direct application nitrogen fertilizer; as a nitrogen source in the manufacture of solid and liquid fertilizers and in a wide variety of industrial processes. Sold both wholesale and retail. Available in truck, rail car and ship cargo lots. Refrigeration grade ammonia also available.

- 7 - 9 - 99 - 101
- ▲ 117 - 119 - 128 - 121 - 135 - 137 - 138 - 140
146 - 147 - 156 - 157 - 159 - 163 - 171 - 173
175 - 176 - 177 - 179 - 182 - 187 - 189 - 200
205 - 210 - 220 - 222 - 223

Animal Health Products

A complete line of products designed to prevent and arrest infections and disease in livestock. Special products complement the efficiency of livestock feeds and minerals. Available in various forms and sizes depending on type and use of product.

- ▲ 137 - 138 - 156 - 157 - 159 - 163 - 175
176 - 177 - 179 - 180 - 184 - 189 - 190
192 - 193 - 235

Aqua Ammonia

Water solution of ammonia for industrial use. Sold in tank wagon, tank truck or rail car lots.

- 8 - 85 - 99 - 104
- ▲ 120 - 200 - 222

Beef Feeds

Complete nutritional line of supplements and minerals for feed lot cattle and cow herds. Purposes of feed lot supplements are to produce optimum weight gain and best feed conversion at lowest cost. Line includes products which help control parasites and aid in the recovery of the animal from various diseases.

Products for cow herds are aimed at promoting a high percentage of conception and live calf births, a stronger calf at birth and a heavier calf at weaning.

Processed in meal and pelleted form and wafers, sold in 50-pound paper bags and in bulk.

- 10 - 21 - 24 - 28 - 32 - 41 - 42 - 43
45 - 48 - 49 - 53 - 61 - 77 - 79 - 103
- ▲ 125 - 136 - 137 - 138 - 143 - 145 - 146 - 147
148 - 156 - 157 - 159 - 163 - 165 - 175 - 176
177 - 179 - 184 - 189 - 190 - 192 - 193 - 225
235

Dairy Feeds

Full nutritional line of supplements, complete feeds and minerals for the entire life cycle of the dairy cow. Calf program is aimed at developing a strong, vigorous first-calf heifer at a minimum age. The cow program incorporates "lead feeding" to nutritionally stimulate the cow to produce milk to her maximum ability.

Processed in meal and pelleted form, sold in 50-pound paper bags.

- 21 - 32 - 40 - 42 - 43 - 45 - 48 - 49
53 - 60 - 77 - 79
- ▲ 136 - 137 - 138 - 143 - 145 - 146 - 147 - 148
156 - 157 - 159 - 163 - 177 - 179 - 180 - 184
189 - 190 - 192 - 193 - 235

DAV-GRO Water-Soluble Fertilizer

Concentrated water-soluble plant food containing the major plant elements plus lesser elements and minerals to provide a complete plant food. Provides instant feeding for vegetables, citrus trees, flowers, lawns, shrubs, vines and house plants.

- 89
- ▲ 149 - 150 - 151 - 152 - 153 - 154 - 155 - 169
170 - 172 - 174 - 182 - 186 - 199 - 201 - 203
218 - 221 - 228 - 229

Defoliants, Cotton - SWFDROP

A true cotton defoliant based on the leaf-dropping characteristics of sodium chlorate buffered against flame hazard by blending with ammonium phosphate. Available in bulk or 55-gallon drums.

- 105
- ▲ 223 - 226

Defoliants, Cotton - SWFDRI

A 42% concentrate of pentachlorophenol for use as desiccant on mature cotton or an herbicide base. Packaged in 5-, 30-, and 55-gallon drums.

- 105
- ▲ 223 - 226

Diammonium Phosphate (DAP)

Basic ingredient used in blended fertilizers as well as for direct application. Available in two grades, 13-52-0 and 18-46-0.

- 11 - 71
- ▲ 118 - 120 - 126 - 127 - 128 - 135 - 137 - 140
- 149 - 150 - 151 - 152 - 153 - 154 - 155 - 167
- 169 - 170 - 172 - 173 - 174 - 182 - 185 - 187
- 188 - 204 - 205 - 206 - 220 - 221 - 222 - 223

Grace Greentown Products

Family of agricultural products manufactured and marketed through retail service centers. Additional information on products and locations available on request.

Grain Screenings

Filler material for animal feeds.

- 86 - 87 - 88 - 97
- ▲ 159

Grain Storage and Drying Equipment

A complete selection of grain bins and grain conditioning and handling equipment for storage. Storage bins available in capacities from 6,600 to 35,300 bushels; drying bins available in capacities from 1,100 to 15,500 bushels.

- ▲ 138 - 145 - 146 - 147 - 148 - 156 - 157 - 159
- 163 - 182 - 183

Hydrofluosilicic Acid (22-25%)

Transparent, slightly fuming liquid. Used as a source of fluoride for fluoridation of municipal water supplies; as a disinfectant for copper, brass and wooden vessels; as a bath in the electrolytic refining of lead; and for service cleaning of aluminum.

- 11 - 65 - 68 - 71 - 90 - 100
- ▲ 126 - 173 - 174 - 221

Industrial Gases

Carbon dioxide, hydrogen and nitrogen, by-products of the ammonia synthesis process. Carbon dioxide is sold for use in the manufacture of dry ice.

- 99
- ▲ 228

Insemination Equipment

Liquid nitrogen refrigerators for the storage of semen ampules are available for purchase or rental in varying sizes. The refrigerators may be serviced at one of the ABS regularly scheduled route stops.

- 237
- ▲ 238 through 299

Lawn and Garden Products

A complete small package line of insecticides, fungicides, weed killers, fertilizers and specialty items including holly dip, rodent bait, tree white, and pet, poultry and livestock dust.

- 95
- ▲ 212 - 215

LAWN SPRAY Fertilizer

A complete liquid fertilizer containing pesticides for direct lawn application. Available as a service only from authorized Grace Lawn Spray Service Centers.

- 66
- ▲ 173

Liquid Fertilizers

Complete fertilizers of various analyses containing all three basic plant nutrients (nitrogen, phosphorus, potash) in liquid form.

- 6 - 7 - 17 - 27 - 30 - 34 - 35 - 37
- 91 - 92 - 104
- ▲ 127 - 128 - 137 - 147 - 150 - 154 - 222 - 223

MAGAMP Fertilizer

A non-burning solid fertilizer, only slightly soluble in water, for nursery stock and fruit trees. Available in one formulation, 7-40-6.

- 96
- ▲ 127 - 128 - 215 - 223 (also sold through distributors)

Mixed Fertilizers

Complete line of pulverized and granulated fertilizers containing all three basic plant nutrients in a variety of formulations. Mixed fertilizers are balanced, dry plant foods, either simple blends of individual nutrient materials (bulk blend fertilizers) or fertilizer materials permanently combined by chemical and physical processing (granular fertilizers).

- 1 - 2 - 3 - 4 - 5 - 6 - 8 - 12
- 13 - 23 - 36 - 37 - 38 - 40 - 46 - 55
- 66 - 68 - 71 - 83 - 84 - 89 - 90 - 91
- 92 - 93 - 94 - 96 - 100 - 107 - 109
- ▲ 118 - 120 - 127 - 128 - 137 - 138 - 140 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153
- 154 - 155 - 156 - 157 - 159 - 161 - 163 - 167
- 169 - 170 - 172 - 174 - 175 - 176 - 177 - 179
- 180 - 182 - 184 - 185 - 188 - 189 - 190 - 198
- 199 - 201 - 203 - 204 - 205 - 206 - 207 - 208
- 209 - 210 - 211 - 213 - 214 - 215 - 216 - 217
- 218 - 221 - 222 - 223 - 228 - 229 - 231

Nitrogen Solutions

Variety of compositions based on combinations of ammonia, ammonium nitrate and urea in solution for both direct soil application and for use in fertilizer manufacturing. Available in tank wagon, tank truck and rail car lots.

- 67 - 85
- ▲ 127 - 128 - 135 - 137 - 138 - 140 - 146 - 147
- 149 - 150 - 151 - 152 - 153 - 154 - 155 - 167
- 169 - 170 - 171 - 172 - 173 - 174 - 177 - 179
- 180 - 182 - 184 - 185 - 186 - 187 - 188 - 189
- 190 - 198 - 199 - 200 - 201 - 203 - 204 - 205
- 206 - 218 - 220 - 221 - 222 - 223 - 228 - 229

Pesticides

Insecticides, pesticides, fungicides and herbicides used for the control of animal or plant pests. Insecticides are available in complete formulations of liquids, dusts, wettable powders and granules.

- 12 - 46 - 55 - 66 - 68 - 82 - 95
- 96 - 105
- ▲ 120 - 122 - 127 - 128 - 129 - 130 - 131 - 132
- 133 - 134 - 137 - 138 - 140 - 141 - 144 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 167
- 172 - 174 - 176 - 177 - 179 - 180 - 184 - 185
- 188 - 189 - 190 - 196 - 198 - 199 - 201 - 203
- 204 - 205 - 206 - 207 - 208 - 209 - 210 - 211
- 212 - 213 - 214 - 215 - 216 - 217 - 218 - 221
- 222 - 223 - 226 - 227 - 228 - 229 - 230 - 231
- 232 - 233 - 234

Phosphate Rock

Used in phosphoric acid production and as a basic ingredient in mixed fertilizer materials. Available as screened material for electric furnaces.

- 11
- ▲ 126 - 127 - 128 - 135 - 171 - 173 - 187 - 220

Phosphoric Acid (52-54%) Wet Process

Inorganic acid used in the manufacture of high analysis dry fertilizer, slurry fertilizer and liquid fertilizer.

- 11 - 71
- ▲ 118 - 126 - 135 - 173 - 182 - 187 - 220 - 222

Poultry Feeds

A combination of complete feeds and supplements to develop a strong, vigorous pullet and later to promote top egg production at the best feed conversion rates. A combination of complete feeds and supplements for turkeys—both breeder and commercial slaughter flocks. Breeder feeds are aimed at maximum health, high egg production, fertility and hatchability. Feeds for growing turkeys are aimed at maximum health, fast growth, best feed conversion and economical gains. Processed in meal or crumbles and sold in 50-pound paper bags.

- 21 - 32 - 41 - 42 - 43 - 45 - 48 - 49
- 53 - 68 - 77 - 79
- ▲ 136 - 138 - 143 - 145 - 146 - 147 - 148 - 156
- 157 - 159 - 163 - 175 - 192 - 193 - 235

Seeds

Legumes, pasture and turf grass seeds; hybrid grain and forage sorghums; hybrid sorghum sudans; cotton, vegetable and soybean seeds. For farm, home and garden use to produce food and fibre, for lawn and turf beautification and soil erosion prevention. Popcorn also available as a consumer product.

- 15 - 16 - 17 - 27 - 30 - 34 - 52 - 58
- 62 - 69 - 72 - 73 - 76 - 81 - 92 - 98
- 102 - 108 - 109 - 110 - 111
- ▲ 122 - 123 - 124 - 127 - 128 - 129 - 130 - 131
- 133 - 134 - 137 - 138 - 141 - 142 - 144 - 145
- 146 - 147 - 148 - 149 - 150 - 151 - 152 - 153
- 154 - 155 - 158 - 160 - 162 - 164 - 166 - 168
- 169 - 170 - 174 - 177 - 178 - 179 - 180 - 181
- 183 - 184 - 186 - 189 - 190 - 191 - 194 - 195
- 197 - 198 - 199 - 201 - 202 - 203 - 204 - 205
- 206 - 216 - 219 - 223 - 224 - 227 - 228 - 229
- 230 - 231 - 232 - 233 - 236

Seed Corn

Varieties of seed corn for every soil and climate.

- 14 - 18 - 19 - 20 - 29 - 31 - 33 - 34
- 54 - 56 - 63 - 70 - 78
- ▲ 122 - 123 - 124 - 129 - 130 - 131 - 133 - 134
- 144 - 145 - 146 - 147 - 148 - 149 - 150 - 151
- 152 - 153 - 154 - 155 - 158 - 164 - 168 - 169
- 170 - 172 - 174 - 178 - 181 - 184 - 195 - 197
- 198 - 199 - 201 - 218 - 219 - 221 - 224 - 228
- 229 - 230 - 231 - 236

Seed Treating Inoculation, Chemicals and Equipment

Nitrogen-fixing inoculation (Nodogen) both as a dry and a liquid culture applied to alfalfas, clovers, soybeans and other legumes prior to planting. Equipment for use in applying the inoculant and other chemicals to the seed prior to planting.

- 30
- ▲ 122 - 123 - 124 - 129 - 130 - 133 - 134 - 141
- 142 - 144 - 158 - 162 - 166 - 178 - 181 - 183
- 186 - 184 - 195 - 197 - 202 - 219 - 224 - 230
- 231 - 232 - 233

Semen

Genetically proven frozen bovine semen for the animal insemination of dairy and beef cows. Ampules are transported by semi-trailer at -320°F to ABS distributors, technicians and herdsmen throughout the country. Common carrier shipment is available to customers not serviced by the existing ABS distribution system in the U.S. and abroad.

- 237
- ▲ 238 through 299

Sheep Feeds

Complete nutritional line of supplements and minerals for feeder lambs. Improves the growth rate and feed efficiency while offering protection from several costly sheep diseases.

Processed in meal or pelleted form and sold in 50-pound paper bags.

Sheep Feeds (continued)

- 41 - 42 - 43 - 45 - 48 - 49 - 53 - 60
77 - 79
- ▲ 138 - 145 - 146 - 147 - 148 - 156 - 157 - 159
163 - 175 - 182 - 193 - 235

Silicofluorides

Ammonium, magnesium and zinc silicofluoride compounds are used in a variety of industrial applications, including laundry soaps, moth-proofing agents, concrete hardeners and disinfectants.

- 65
- ▲ 173

Slurry Fertilizers

Grace Slurry-Mix fertilizers are balanced plant foods in semi-liquid form that are custom-spray-applied to the soil. A number of compositions are available for specific soil and crop requirements. Slurry fertilizers are an innovation in commercial plant foods and show promise of delivering plant nutrients to the soil in a very economical manner.

- 22 - 24 - 25 - 26 - 28 - 42 - 43 - 44
47 - 50 - 51 - 57 - 59 - 64 - 74 - 75
78 - 106
- ▲ 137 - 138 - 140 - 145 - 146 - 147 - 148 - 156
157 - 159 - 163 - 175 - 176 - 177 - 179 - 180
184 - 189 - 190 - 222

START-RITE Fertilizer

A completely water-soluble, high-analysis plant food used as a starter solution in transplanting all types of plants. It dissolves instantly and is especially formulated to promote healthy, early growth.

- 89
- ▲ 127 - 128 - 149 - 150 - 151 - 152 - 153 - 154
155 - 169 - 170 - 172 - 174 - 182 - 203 - 221

Sulfur-SFWGOLD

Available as finely ground dusting, flaked, coarse-ground, or wettable powder for blending with insecticides, for direct application to the soil, or for blending with liquid and dry fertilizers. Delivered in bulk or 50-pound bags.

- 105
- ▲ 223 - 226

Sulfuric Acid (66-68 and 98%)

Inorganic acid used in the manufacture of ammonium sulfate, superphosphate fertilizers and other organic acids, as well as many other industrial processes.

- 7 - 11 - 65 - 67 - 71 - 96 - 107
- ▲ 129 - 126 - 135 - 171 - 173 - 182 - 187 - 216
220 - 223 - 228

Superphosphate, Single (20% A. P. A.)*

Basic ingredient used in mixed fertilizer formulations and in direct fertilizer application.

- 1 - 2 - 3 - 4 - 5 - 55 - 65 - 66
67 - 71 - 90 - 96 - 100 - 107
- ▲ 112 - 113 - 114 - 115 - 116 - 127 - 128 - 135
140 - 149 - 150 - 151 - 152 - 153 - 154 - 155
156 - 157 - 159 - 161 - 163 - 167 - 170 - 172
173 - 174 - 175 - 182 - 185 - 187 - 188 - 203
204 - 205 - 206 - 215 - 218 - 220 - 221 - 223
228

Superphosphate, Triple (46% A. P. A.)*

Basic ingredient for direct fertilizer application and for many mixed and blended fertilizer formulations. Available in granular or pulverized form.

- 6 - 11 - 71
- ▲ 113 - 114 - 115 - 116 - 126 - 127 - 128 - 135
137 - 140 - 149 - 150 - 151 - 152 - 153 - 154
155 - 156 - 157 - 159 - 163 - 167 - 169 - 170
171 - 172 - 173 - 174 - 175 - 185 - 187 - 188
203 - 204 - 205 - 206 - 215 - 220 - 221 - 222
223

Swine Feeds

Complete nutritional line for each phase of the life cycle of swine, including supplements, complete feeds and minerals for all classes of swine. Products enable the farmer to incorporate modern swine nutrition practices into feeding programs to increase rate of gain, counteract problems from parasites and diseases, and help reduce the overall cost of production pork.

Processed in meal or pelleted form and sold in 50-pound paper bags or bulk.

- 21 - 32 - 41 - 42 - 43 - 45 - 48 - 49
53 - 60 - 77 - 79
- ▲ 136 - 137 - 138 - 143 - 145 - 146 - 147 - 148
156 - 159 - 163 - 175 - 176 - 192 - 193 - 235

Urea

White, solid nitrogen fertilizer in prill form, containing 45-46% nitrogen. Also available in feed grade suitable for mixture in cattle feeds and in crystalline form for industrial use. Available in multiwall paper bags and in bulk.

- 9 - 99 - 101
- ▲ 121 - 127 - 128 - 135 - 137 - 140 - 145 - 146
147 - 148 - 149 - 150 - 151 - 152 - 153 - 154
155 - 156 - 157 - 159 - 163 - 167 - 169 - 170
172 - 173 - 174 - 175 - 176 - 185 - 187 - 188
200 - 203 - 204 - 205 - 206 - 215 - 218 - 220
221 - 222 - 223

Urea Solutions

Urea-ammonium liquors of various compositions used in manufacture of mixed fertilizers. Available in tank cars and tank trucks.

- 24 - 85 - 99
- ▲ 200 - 220

* Available Phosphoric Acid

Manufactures plastic packaging materials. Flexible packaging products include bags, films, pouches and laminates as well as complete packaging systems for industry. Rigid container products include AIRMOLD blow molded boxes for consumer packaging and biaxially-oriented and rigid foam polystyrene containers.

Headquarters Office

P. O. Box 464
Duncan, South Carolina 29334
(803) 439-4121

● Plants**UNITED STATES**

- 1** IOWA, Cedar Rapids (52406)
1125 Wilson Avenue, S.W.
P. O. Box 1167
(319) EM 4-0141
- 2** MASSACHUSETTS, Woburn
(01801)
369 Washington Street
(617) WE 3-7500
- 3** SOUTH CAROLINA, Simpsonville (29681)
P. O. Box 338
(803) 963-4111
- 4** PENNSYLVANIA, Reading
(19603)
P.O. Box 295
(215) 926-2171

CANADA

- 5** ONTARIO, Cooksville
2365 Dixie Road, North
(416) 277-2751

▲ Sales Offices**UNITED STATES**

- 6** CALIFORNIA, Hayward
(94578)
91 Jackson Street
(415) 582-0833
- 7** CALIFORNIA, Huntington Park
(94544)
5501 Pacific Boulevard, Rm. 203
(213) 583-3251

- 8** COLORADO, Denver (80215)
10395 W. Colfax, Rm. 250
(303) BE 3-6558

- 9** ILLINOIS, Chicago (60625)
Merchandise Mart Plaza
Room 475
(312) 527-5700

- 10** MINNESOTA, Minneapolis
(55204)
2508 Foshay Tower
(612) FE 9-8219

- 11** NEBRASKA, Omaha (68102)
1506 W.O.W. Building
(402) 341-4669

- 12** NEW JERSEY, Chatham
(07928)
323 Main Street
(201) 635-6300

- 13** NORTH CAROLINA, Charlotte
(28210)
1433 Emerywood Drive
(704) 525-3324

- 14** OHIO, Medina (44256)
P.O. Box 503
(216) 725-4951

- 15** PENNSYLVANIA, Reading
(19603)
P.O. Box 295
(215) 926-2171

- 16** PENNSYLVANIA, Upper
Darby (19082)
60 Garret Road
(215) FL-2311

- 17** SOUTH CAROLINA, Duncan
(29334)
P. O. Box 464
(803) 439-4121

CANADA

- 18** ALBERTA, Calgary
415 Manitu Rd., S.E.
(403) 264-1655

- 19** ALBERTA, Edmonton
10117 111th Street
(403) 482-3914

- 20** BRITISH COLUMBIA, Vancouver
3450 Wellington Avenue
(604) 437-1030

- 21** MANITOBA, Winnipeg
830 King Edward Street
(204) 774-2429

- 22** NOVA SCOTIA, Halifax
3003 Olivet Street
(902) 455-3128

- 23** ONTARIO, Cooksville
2365 Dixie Road, North
(416) 277-2751

- 24** ONTARIO, Downsview
3500 Dufferin Street
(416) 630-1292

- 25** ONTARIO, Kitchener
Dunker Building, Room 601
251 King Street, West
(519) 742-8521

- 26** ONTARIO, Toronto
4185 Dundas Street, West
Suite 207
(416) 239-4838

- 27** QUEBEC, Mount Royal
785 Plymouth Avenue
Suite 123
(514) 731-3671

PRODUCTS

PLASTIC CONTAINERS

AIRMOLD Blow Molded Packaging

Custom blow molded double-wall boxes in varying sizes and interior configurations for specialty packaging of power tools, cameras and other industrial and consumer products.

- 1
- ▲ 17

Rigid Containers

Biaxially-oriented and rigid foam polystyrene containers and trays for packaging meats, poultry, fish, bakery and confectionery products. Non-food applications include records, toys, games, textiles and paper.

- 4
- ▲ 15

SHRINKING BAGS AND CASINGS

CRYOVAC "L" for packaging turkeys, whole chickens and ducks.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

CRYOVAC "S" for packaging smoked, cured and processed meats, beef, cheese and poultry.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

CRYOVAC "S" casings for packaged, smoked, cured and processed meats.

- 1 - 2 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

SHRINKING FILMS

Polyethylene

CRYOVAC "D" for packaging toys, phonograph albums, specialties, meats and bakery items.

CRYOVAC "L" for packaging whole and cut-up broilers, turkey parts and bakery items.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

Polyvinylidene Chloride

CRYOVAC "S" for packaging meat and cheese.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

Polypropylene

CRYOVAC "J" for packaging textiles, games and paper products.

CRYOVAC "Y" for packaging phonograph albums and toys. Also CRYOVAC "Y"-Perforated for produce, both shrink and non-shrink applications.

CRYOVAC "YH" for laminating with cellophane.

- 3
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

LAMINATES

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

POUCHES

For packaging a variety of cured, smoked and processed meats.

- 3 - 5
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

EQUIPMENT

Customized packaging lines: automatic, semi-automatic and hand-operated equipment for edge sealing and vacuum sealing; shrink tunnels, clip applicators.

- 2
- ▲ 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14
- 16 - 17 - 18 - 19 - 20 - 21 - 22 - 23 - 24
- 25 - 26 - 27

DAWBARN

Extrudes and markets polyethylene and polypropylene monofilament, multifilament and ribbon fibers. Weaves, finishes and markets DAWBAC fabric, used as primary backing for tufted carpets.

General Office

901 S. Delphine Avenue
P. O. Box 460
Waynesboro, Virginia 22980
(703) 942-1101

● Plants

UNITED STATES

- 1 VIRGINIA, Waynesboro**
(22980)
901 S. Delphine Avenue
P. O. Box 460
(703) 942-1101

CANADA

- 2 NOVA SCOTIA, Truro**
589 Prince Street
(902) 895-5445
- 3 ONTARIO, Brantford**
Grace Fibres, Ltd.
36 Morton Avenue, East
P. O. Box 1028
(519) 759-2200

▲ Sales Offices

UNITED STATES

- 4 GEORGIA, Dalton (30720)**
P.O. Box 1023
(404) 278-0114
- 5 NEW JERSEY, Chatham**
(07928)
323 Main Street
(201) 635-6300
- 6 NORTH CAROLINA, Charlotte**
(28209)
1630 Mockingbird Lane
(704) 523-8648
- 7 VIRGINIA, Waynesboro**
(22980)
901 S. Delphine Avenue
P.O. Box 460
(703) 942-1101

CANADA

- 8 BRITISH COLUMBIA, Richmond (Hersog)**
1078 Cambie Road
P. O. Box 145
(604) 278-9688
- 9 NOVA SCOTIA, Truro**
589 Prince Street
(902) 895-5445
- 10 ONTARIO, Brantford**
Grace Fibres, Ltd.
36 Morton Avenue, East
P. O. Box 1028
(519) 759-2200

PRODUCTS

DAWBAC Fabric

Woven of polypropylene ribbon in 12- and 15-foot widths. Used in primary carpet backing.

DLP Monofilament and Multifilament

Single filament deniers from 50 to 1000. Limited deniers in flat cross sections.

DLP Ribbon Monofilament

Available in deniers ranging from 250 to 1500.

- 1 - 3
▲ 4 - 5 - 6 - 7 - 10

Finished Rope and Cordage

- 2
▲ 8 - 9 - 10

TRANSPARENT PAPER PRODUCTS LIMITED

Prints (both gravure and flexographic), laminates, coats and fabricates a wide range of flexible packaging materials. Products are sold in roll stock, pouch and bag forms converted from cellophane, polyethylene, polypropylene, mylar, foil, paper and tissue.

General Office

6440 Henri Bourassa Blvd., East
Montreal North 39, Quebec, Canada
(514) 322-9210

● Plant

CANADA

- 1 QUEBEC, Montreal North 39
6440 Henri Bourassa Blvd. East
(514) 322-9210

▲ Sales Offices

CANADA

- 2 ONTARIO, Downsview
3500 Dufferin Street
Suite 600
(416) 630-1282

- 3 QUEBEC, Montreal 9
785 Plymouth Avenue
(514) 731-3671

PRODUCTS

Cellophane

Roll stock, bags, pouches, sheets; used for confectionery, biscuits, potato chips.

Cello Wax Laminate

Roll stock and bags, for packaging macaroni, biscuits and confectionery.

Extrusion Coating

Cellophane, mylar or foil coated with polyethylene. Roll stock and pouches used for packaging drink mixes, soups, powdered foods, potato flakes, condiments and smoked meats.

Polyethylene

Printed roll stock, bags and pouches for packaging blankets, bathroom tissue, shirts and sweaters, screws and nails.

Foil Paper

Foil which is glue-laminated to paper inside a foil bag; used for packaging potato chips.

Foil, Unsupported

Printed roll stock used for automatic overlay and covers for TV dinners.

Foil Tissue

Foil/wax/tissue and foil hot wax-laminated to tissue and used for cigarette package liners.

K O Kote

Cellophane printed and coated with wax; sorbic supplied for processed cheese and plain cello waxed and starched for natural cheese.

Wrap Kote

Paper coated with Elvax for powdered desserts.

Wrap-Kote (2 Substrates)

Foil which is glue-laminated to sulphite, printed, then coated and slit; used for potato chips and margarine carton overwrap.

Adhesive Laminates (2 Substrates)

Combination of mylar/poly, cello/poly and cello/foil; all laminated with a lacquer binder, to be used for luncheon meat, weiners and condiment packaging.

Paper

Printing and slitting rolls of linen-embossed paper used for shopping bags and band-aid wraps.

● 1

▲ 2 - 3

GRACE**HATCO GROUP**

Manufactures and markets phthalic anhydride, sebacic acid, plasticizers, synthetic jet lubricants and lubricant-base stocks, polyester resins, supported and unsupported vinyl sheet and film, synthetic and natural waxes, industrial solvents, specialty organic chemicals and plastic office supplies.

Headquarters Office

King George Post Road
Fords, New Jersey 08863
(201) 826-6262

HATCO CHEMICAL DIVISION

Manufactures and markets phthalic anhydride, sebacic acid, plasticizers, synthetic jet lubricants and lubricant-base stocks and specialty organic chemicals.

● Plant

1 NEW JERSEY, Fords (08863)
King George Post Road
(201) 826-6262

▲ Sales Offices

2 INDIANA, Fort Wayne (46801)
3805 Dalewood Drive
(219) 748-2796

3 MASSACHUSETTS, Topsfield
(01963)
Parsonage Lane
(617) 887-5635

4 NEW JERSEY, Fords (08863)
King George Post Road
(201) 826-6262

5 OHIO, Cuyahoga Falls (44221)
2916 Millboro Road
(216) 929-3351

ELLAY RUBBER DIVISION

Produces and markets printed, laminated and embossed vinyl film and sheeting.

General Office

1200 South Central Avenue
Los Angeles, California 90021
(213) 747-6355

● Plant

6 CALIFORNIA, Los Angeles
(90021)
1200 South Central Avenue
(213) 747-6355

▲ Sales Office

7 CALIFORNIA, Los Angeles
(90021)
1200 South Central Avenue
(213) 747-6355

ELM COATED FABRICS DIVISION

Produces and supplies unsupported vinyl film and sheet for a number of consumer and industrial applications.

General Office

220 Stewart Avenue
Brooklyn, New York 11237
(212) HY 7-2230

● Plant

8 NEW YORK, Brooklyn (11237)
220 Stewart Avenue
(212) HY 7-2230

▲ Sales Office

9 NEW YORK, New York (10016)
261 Fifth Avenue
(212) MU 6-3311

HOWARDS & SONS (CANADA) LTD.

Manufactures and markets phthalic anhydride, plasticizers, sorbitol and other chemical specialties.

General Office

Wallrich Avenue
Cornwall, Ontario
(613) 833-5330

● Plant

10 ONTARIO, Cornwall
Wallrich Avenue
(613) 933-5330

▲ Sales Offices

11 ONTARIO, Cornwall
Wallrich Avenue
(613) 933-5330
from Montreal call
(514) 861-4622

12 ONTARIO, Toronto
79 Ellesmere Road
Suite 17
Scarboro
(416) 444-4477

MARCO CHEMICAL DIVISION

Manufactures polyester resins. Cornelius Wax Refining Corp., a subsidiary, refines and manufactures natural and synthetic waxes.

General Office

1711 West Elizabeth Ave.
Linden, New Jersey 07036
(201) 925-6610

● Plants

13 NEW JERSEY, Edison (08840)
Edison Industrial Center
(201) 549-2000

14 NEW JERSEY, Linden (07036)
1711 W. Elizabeth Ave.
(201) 925-6610

15 OHIO, Swanton (43558)
413 E. Broadway
(419) 826-3010

▲ Sales Offices

16 GEORGIA, Atlanta (30040)
3596 Oakcliff Road
(404) 875-9256

17 NEW JERSEY, Linden (07036)
1711 W. Elizabeth Ave.
(201) 925-6610

18 NORTH CAROLINA,
Charlotte (28214)
2224 Toddville Road
(704) 399-6274

19 OHIO, Swanton (43558)
413 E. Broadway
(419) 826-3010

JOSHUA MEIER DIVISION

Manufactures and markets plastic products for the office supply industry, including sheet protectors, report covers, presentation binders, portfolios, photo albums, desk sets and accessories.

General Office

7400 West Side Avenue
North Bergen, New Jersey 07047
(201) 869-8200

● Plant

20 NORTH BERGEN, New Jersey
(07047)
7400 West Side Avenue
(201) 869-8200

▲ Sales Office

21 NORTH BERGEN, New Jersey
(07047)
7400 West Side Avenue
(201) 869-8200

SOUTHBRIDGE PLASTICS DIVISION

Produces printed, laminated and embossed vinyl sheeting.

General Office

1 Park Avenue
New York, New York 10016
(212) 889-5300

● **Plants**

- 22** MISSISSIPPI, Corinth (38834)
Golding Drive
(601) 287-1401
- 23** NEW JERSEY, Clifton (07012)
310 Allwood Road
(201) 773-1200

▲ **Sales Offices**

- 24** CALIFORNIA, Los Angeles
(90015)
1200 S. Central Avenue
(213) 746-3500
- 25** ILLINOIS, Chicago (60611)
666 Lakeshore Drive
(312) 337-2047
- 26** ILLINOIS, Chicago (60620)
9146 S. Green Street
(312) 239-4300

- 27** NEW YORK, New York (10016)
1 Park Avenue
(212) 889-5300

- 28** NORTH CAROLINA,
High Point (27261)
1809 English Street
(919) 882-2222

- 29** TEXAS, Dallas (75207)
2430 Converse Street
(214) ME 1-0304

- 30** ONTARIO, Toronto
85 Wingold Avenue
(416) 789-7237

SOUTHERN RESIN & SOLVENTS DIVISION

Markets polyester resins and other materials used in fabricating reinforced plastics.
Distributes a variety of industrial solvents, chemicals and polyurethane foams.

General Office

8700 N.W. 36th Avenue
Miami, Florida 33147
(305) 691-4321

● **Plant**

- 31** FLORIDA, Miami (33147)
8700 N.W. 36th Avenue
(305) 691-4321

▲ **Sales Offices**

- 32** FLORIDA, Miami (33147)
8700 N.W. 36th Avenue
(305) 691-4321

- 33** GEORGIA, Atlanta (30040)
3596 Oakcliff Road
(404) 875-9256

PRODUCTS**Acetone**

A widely used industrial solvent. Available in bulk, 55-gallon drums and smaller containers.

▲ 32 - 33

Aircraft Cleaners

A variety of industrial solvents used in cleaning and maintaining aircraft. Available in bulk, 55-gallon drums and smaller containers.

▲ 32

Anti-Static Agent

Hatcol 1606 is an anti-static agent specifically developed for use in PVC-impregnated conveyor belts.

● 1
▲ 2 - 3 - 4 - 5

Barium Carbonate

For use in brick manufacturing and other industries. Available in 50 lb. bags.

▲ 11-12

Barium Hydroxide

For use in lubricating oil additives. Available in 100 lb. kegs.

▲ 11 - 12

Beeswax

Available as crude or refined, both natural and synthetic, for use in arts and crafts, cosmetics, pharmaceuticals, candle manufacturing, printing and carbon paper, polishes, leather finishing, crayons and lead pencils. The entire line is available as 10- to 12-pound slabs or one-pound cakes packaged in multiwall cartons of approximately 55 pounds net.

● 13

▲ 16 through 19

Benzyl Chloride

A widely used chemical intermediate. Available in bulk and in 55-gallon drums.

● 1

▲ 2 - 3 - 4 - 5

Bleaching Agents

Inorganic chemical bleaching agents, such as sodium perborate and sodium chlorite. Available in 100-lb. containers.

▲ 11 - 12

Candelilla Wax

Available as crude or refined natural wax for use in polishes, chewing gum, candles and in coating castings.

● 13

▲ 16 through 19

Capryl Alcohol

Water-white liquid used as a solvent defoamer and chemical intermediate. Available in bulk or in drums.

● 1

▲ 2 - 3 - 4 - 5

Carnauba Wax

Available as crude or refined natural wax for use in pharmaceuticals, cosmetics, crayons and pencils, dental compounds, carbon papers, inks and finishes, mold release agents, and automotive, floor and shoe polishes. Available in lump, flake or pulverized form.

● 13

▲ 16 through 19

Ceresine Wax

A petroleum-based wax for chewing gum, cosmetics, crayons and pencils, dental compounds, lubricants and waterproofing applications.

● 13

▲ 16 through 19

Construction Materials

Decorative, rigid, vinyl films used as laminates on wood, metal, acoustical tile, "Masonite", floor tile and other substrates. Provide excellent scuff-resistance, cleanability and permanence as a barrier to water vapor. Available in rolls up to 72 inches wide.

● 8

▲ 9

Curing Agents, Polyester Resin

Methyl ethyl ketone peroxide, benzoyl peroxide and other polyester activators or hardeners.

▲ 16 - 20 - 21

Cyclic Ketone Resins

Organic chemical intermediates used in the manufacture of lacquers and adhesives. Available in 100-lb. containers.

▲ 11 - 12

Cyclohexanone

Colorless liquid used as a solvent and chemical intermediate. Available in 45 Imperial-gallon drums.

▲ 11-12

Cyclohexyl Alcohol

Water-white liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

● 10

▲ 11 - 12

EMULSOWAX Synthetic Waxes

A series of waxes used as extenders or carnauba replacements in floor wax, leather finishes, shoe polishes and paper coatings.

● 13

▲ 16 through 19

Epoxidized Oils

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in bulk tank truck and rail tank car lots and in 55-gallon drums.

● 1

▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Ethyl Alcohol

A denatured solvent for industrial use. Available in bulk, 55-gallon drums and other standard packages.

▲ 32

Fatty Acids

Distilled and crude vegetable fatty acids used for soaps, esters and detergents. Available in 400-pound drums and bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5

Fibrous Glass

Fibrous glass reinforcements for polyester and other resins. Available as woven roving, mat, and woven fabrics in varying weights and dimensions.

- ▲ 16 - 32 - 33

Fumaric Acid

White crystalline material used in the preparation of polyesters, plasticizers, alkyd resins and ester gums. Available in 50-pound multiwall bags.

- ▲ 2 - 3 - 4 - 5

Gel-Coats

Specialty polyester resins used to impart surface properties of color, scuff, and chemical resistance. Used widely in manufacturing boats and other items where superior surface characteristics and appearance are desired. Available in 55-gallon drums and 5-gallon pails.

- 14 - 15 - 31
- ▲ 16 - 17 - 18 - 19 - 32 - 33

Humectants

Products, such as sorbitol, which maintain a desired moisture content despite broad humidity fluctuations. Sorbitol is used in toothpastes, in tobacco, and in jams, jellies and other confectionery products.

- 10
- ▲ 11 - 12

Insecticide Base Oils

Petroleum and other base stocks for use in the formulation of insecticides and pesticides. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

Isopropyl Alcohol

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

- ▲ 32

Japan Wax

A wax-like fat used in lead pencils, textiles, cosmetics, cordage and laundry finishes. Available as a crude or refined product.

- 13
- ▲ 16 through 19

Jet Engine Lubricants

Lubricant and lubricant-base stocks which meet military and commercial requirements for jet turbine engine lubricant; based on high purity organic esters.

- 1 - 10
- ▲ 4 - 11 - 12

Maleic Anhydride

A chemical intermediate used in the manufacture of alkyds, polyesters, plasticizers, ester gums and other materials. Available in molten form in bulk tank wagon or tank truck, or as white flaked solid in 50-pound multiwall bags.

- ▲ 2 - 3 - 4 - 5

Methyl Alcohol

A general purpose industrial solvent. Available in bulk, 55-gallon drums and other standard packages.

- ▲ 32

Methylcyclohexyl Alcohol

Colorless organic liquid used as a solvent and chemical intermediate. Available in bulk or in 55-gallon drums.

- 10
- ▲ 11 - 12

Methyl Ethyl Ketone

Solvent for lacquers and rubber and plastic coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

Methyl Isobutyl Ketone

Solvent for nitrocellulose and other surface coatings. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

Mineral Spirits

Organic liquid solvents used widely in paint and varnishes. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32

Molding Compounds

Polyester resin and fiber glass molding compounds for compression molding of industrial automotive and electrical components. Available in roll form, 125 lb. per roll.

- 14 - 15
- ▲ 16 - 17 - 18 - 19

Mold Release Agents

Industrial waxes and other parting agents used in polyester molding operations.

- ▲ 16 - 17 - 18 - 19 - 32 - 33

Montan Wax

A mineral wax extracted from lignite, used in carbon paper, insulation, polishes and other applications. Available in natural state and bleached forms.

- 13
- ▲ 16 through 19

Myristyl-cetyl Alcohol

A blend of fatty alcohols, HATCOL MC finds use as an intermediate for quaternaries and tanning agents. Available in bulk and in 55-gallon drums.

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- ▲ 2 - 3 - 4 - 5

Ourocurary Wax

Available as a crude or refined natural wax, used extensively in carbon paper manufacture, crayons and pencils, inks and printing, lubricants, leather finishes and polishes.

- 13
- ▲ 16 through 19

Ozokerite

A petroleum-based wax for carbon paper, cosmetics, crayons and pencils, insulating applications, paper coating, and automotive, floor and shoe polishes.

- 13
- ▲ 16 through 19

Paint Chemicals

Industrial solvents and chemicals used in manufacturing paints, lacquers and thinners. Available in bulk, 55-gallon drums and smaller containers.

- ▲ 32 - 11 - 12

Phthalic Anhydride

A widely used intermediate for plasticizers, polyesters, alkyds, dyestuffs and pharmaceuticals. Available as a molten liquid in bulk tank trucks and rail tank cars and as white flaked solid in 80-pound multiwall bags.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12

Plastic Office Supplies

Products for the office supply industry including sheet protectors, report covers, presentation binders, photo albums, desk sets and accessories.

- 20
- ▲ 21

Plasticizers**Adipates**

The adipates are primary plasticizers used with a wide variety of resins. Excellent permanence and low temperature properties are imparted to adipate-plasticized polyvinyl chloride compounds. In addition, plastisols prepared with adipates give exceptionally low initial and stable long-term viscosities. Adipates have good heat and light stability and impart a soft drape to vinyl film. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1 - 10
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Epoxyes

The epoxidized oils perform as plasticizers and stabilizers in vinyl formulations. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Esters, Aliphatic

The caprylate-caprate and di-caprate esters are compatible with a wide range of resins. Used as plasticizers for natural and synthetic rubber, they impart excellent low temperature properties to these materials. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Fumarates

The fumarates are monomeric in nature and are used for copolymerization with such monomers as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water-based paints, paper coatings, etc. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Isophthalates

The isophthalate esters, used in vinyl compounds, lend outstanding durability to nitrocellulose-lacquered surfaces. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Maleates

The maleates are monomeric in nature and are used for copolymerization with monomers such as vinyl acetate, vinyl chloride, styrene and acrylonitrile in manufacturing resins for water-based paints and paper coatings. Available in 55-gallon drums and in bulk tank truck and rail tank car.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers (continued)**Phthalates**

A wide range of primary phthalate plasticizers are available. Dimethyl and diethyl phthalates are used in adhesives and in plasticizing cellulose acetate. Di-isobutyl, dibutyl and dicyclohexyl phthalates are used in adhesives, lacquers, emulsions, heat-sealing paper coatings and in cellophane. Di-isohexyl, butyl benzyl, butyl octyl and butyl decyl are fast fluxing and high solvating vinyl chloride plasticizers. The octyl and decyl phthalates are the general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. N-octyl-decyl, 610 and 810 phthalates as vinyl plasticizers provide good low-temperature flexibility. Isodecyl, tri-decyl and di-tri-decyl phthalates find wide acceptance in high temperature wire compounds. Specialty phthalate plasticizers are offered for specific end use requirements. Available in 55-gallon drums and in bulk tank car and tank wagon lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers, Low Temperature

Functional plasticizers imparting a specific end result in vinyl and other resin formulations. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers, Polymeric

The polymeric plasticizers are specialty products providing permanence and oil- and hexane-resistance in finished compounds.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers, Secondary

Secondary plasticizers are used in vinyl formulations as low cost extenders of the primary type. Often they impart specially desired end use properties. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers, Semi-Polymeric

These products provide a range of properties to various resin formulations between those obtained with the primaries and the higher priced true polymeric. Available in 55-gallon drums and in tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Plasticizers, Specialty

Plasticizers, e.g. glyceryl triacetate, HATCOL 332, HATCOL 334, for specialized end use applications with natural, synthetic, and chlorinated rubbers and with cellulose and other natural and synthetic resins. Available in 55-gallon drums and in tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Sebacates

The sebacates are primary plasticizers used with a variety of resins. The octyl sebacates are excellent low temperature vinyl plasticizers and synthetic lubricants. Available in 55-gallon drums and in bulk tank truck and rail tank car lots.

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- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Trimellitates

Trimellitates find wide application in formulating high temperature vinyl wire compounds and are available in 55-gallon drums and in bulk tank truck and rail tank car lots.

- 1
- ▲ 2 - 3 - 4 - 5 - 11 - 12 - 32

Polyester Resins

With glass fiber reinforcement, the polyesters find wide application in the automotive, marine, construction and related industries. Application properties and resistance to impact and chemical attack can be varied to specific requirements. Available in 55-gallon drums, 5-gallon pails and in bulk tank truck lots.

- 14 - 15
- ▲ 16 - 17 - 18 - 19 - 32 - 33

Polyesters, Fire Retardant

Specialty polyester formulations which retard combustion when exposed to open flame. Available in 55-gallon drums, in 5-gallon pails and in bulk tank truck lots.

- 14 - 15
- ▲ 16 - 17 - 18 - 19 - 32 - 33

Polyglycols

Sorbitol for use in toothpaste, pharmaceuticals, cosmetics, confectioneries and other food products. Available in both crystallizing and non-crystallizing grades.

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- ▲ 11 - 12

Polymerization Initiators or Activators

Organic and inorganic peroxide and persulfate salts used in reinforced plastics and synthetic resin manufacture. Available in 100 lb. drums and smaller containers.

▲ 11 - 12

Polymerized Fatty Acids

Polymerized vegetable fatty acids are used in demulsifiers and inhibitors. Available in 400-pound drums and in bulk tank truck and rail tank car lots.

● 1
▲ 2 - 3 - 4 - 5

Polyurethane Foam

Equipment and materials for manufacturing polyurethane foam in place. Principally used in insulating and caulking new home construction, and marine application for flotation purposes.

▲ 32 - 33

Rigid PVC Lubricant

HATCOL 340 Rigid PVC Lubricant is used in the fabrication of rigid PVC products such as calendered sheet, extruded pipe, electrical conduit and molded fittings and housings.

● 1
▲ 2 - 3 - 4 - 5

Rigid Vinyl Films

Decorative rigid and semi-rigid vinyl films used as laminates on a variety of substrates for construction materials* and other applications.

● 8
▲ 9

Sebacic Acid, C-18 Dibasic Acid

Solid, prilled sebacic acid is used in cosmetics, nylon 6-10 and in low temperature plasticizers. Both CP and purified grades are available in 50-pound multiwall bags.

● 1
▲ 2 - 3 - 4 - 5 - 11 - 12

Solvents

A wide range of aromatic and aliphatic solvents. These find wide use in paint and lacquer thinners, as metal degreasers, and as dry-cleaning solvents. Available in 55-gallon drums, smaller containers and bulk tank truck lots.

▲ 32

*See additional product listing under "Construction Materials", page 48.

Synthetic Waxes

A wide range of petroleum-based and other synthetic waxes. Specialty blends and natural wax substitutes for every purpose.

● 13
▲ 16 through 19

Titanium Dioxide

Inorganic white pigment. Available in 50-lb. multiwall bags.

▲ 11 - 12

Vinyl Compounds

Series of proprietary products for use in rigid and flexible vinyl fabrications, such as wire and cable, footwear, building and construction materials, food and beverage packaging, medical and surgical supplies, household and molded products, automotive toys. Available as pellets or powder blend in 50-lb. multiwall bags and larger sized unitized containers.

● 8
▲ 2 - 3 - 4 - 5 - 9

Vinyl Film and Sheet

Both supported and unsupported vinyl film and sheet are used as furniture covering, vinyl flooring, roofing, mattress covers, window shades, auto seat covers, shower curtains and outerwear. Materials are styled to consumer requirements and produced in rolls up to 72 inches wide.

● 6 - 8 - 22 - 23
▲ 7 - 9 - 24 - 25 - 26 - 27 - 28 - 29 - 30

Vinyl Film, Supported

Rolls, up to 72 inches wide, of flexible vinyl film laminated to cotton, nylon and other materials to form a reinforced decorative vinyl fabric used in furniture covering, luggage, auto seat covers and juvenile products.

● 6 - 22 - 23
▲ 7 - 24 - 25 - 26 - 27 - 28 - 29 - 30

Vinyl Film, Unsupported

Rolls, up to 72 inches wide, of flexible and rigid vinyl films, which are laminated to various substrates for use as construction material, window shade fabric, shower curtains and other consumer products. An excellent vehicle for styling through embossing and printing.

● 6 - 8
▲ 7 - 9

Industrial Chemicals Group

GRACE

DAVISON CHEMICAL DIVISION

Manufactures and markets industrial chemical products including petroleum cracking catalysts, industrial and custom catalysts and catalyst supports, RANEY nickel catalysts, fine-sized silicas, industrial adsorbents including silica gel and molecular sieves, packaging desiccants and rare earths.

Headquarters Office

101 North Charles Street
Baltimore, Maryland 21203
(301) 727-3900

● Plants

UNITED STATES

1 LOUISIANA, Lake Charles
(70604)
P. O. Box BB
(318) 527-5228

2 MARYLAND, Baltimore
(21226)
Curtis Bay Plant
(301) 355-4900

3 NEW JERSEY, Pompton Plains
(07444)
P. O. Box 188
(201) 835-3060

4 NEW MEXICO, Gallup (87301)
Route 666 North of Gallup
P. O. Box 506
(505) 863-6001

5 OHIO, Cincinnati (45229)
4775 Paddock Road
(513) 242-3312

6 TENNESSEE, Chattanooga
(37406)
4000 N. Hawthorne St.
(615) 698-3461

7 TENNESSEE, South Pittsburg
(37380)
3rd St. and Railroad Ave.
(615) 837-6778

CANADA

8 QUEBEC, Valleyfield
42 Fabre St.
(514) 373-4224

▲ Sales Offices

UNITED STATES

9 CALIFORNIA, San Francisco
(94114)
2 Pine St.
(415) 781-7530

10 MARYLAND, Baltimore
(21203)
101 N. Charles St.
(301) 727-3900

11 NEW JERSEY, Pompton Plains
(07444)
P. O. Box 188
(201) 835-3060

12 TENNESSEE, Chattanooga
(37406)
4000 North Hawthorne St.
(615) 698-3461

13 TENNESSEE, Chattanooga
(37402)
819 Hamilton National Bank
Bldg.
(615) 266-8616

14 TEXAS, Houston (77004)
4101 San Jacinto
(713) 528-1456

CANADA

15 ALBERTA, Calgary
1011 17th Ave., S.W.
(403) 244-8467

16 ONTARIO, Toronto
347 Bay St.
(416) 364-9272

PRODUCTS

Industrial and Specialty Catalysts

A broad range of catalysts for the chemical and petrochemical industries including those specifically manufactured for processes such as oxidation, hydrogenation, dehydration, alkylation and esterification, as well as custom and prescription catalysts which utilize as active agents all base- or precious-metal salts; catalyst supports including silica gel.

- 2 - 5 - 7
- ▲ 8 - 10 - 12 - 14 - 16

Molecular Sieves

Crystalline forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties. Used for drying and purifying gases, drying liquids, the separation of hydrocarbons and in the manufacture of catalysts. Four basic types of molecular sieves manufactured by Davison are the 3A, 4A, 5A and 13X types. Each type is available in bead form with mesh sizes of 4-8, 8-12 and 20-50 mesh (U. S. Standard Sieves). Special grades of molecular sieves available include those for refrigeration, acid-resistant requirements, moisture-indicating types and an exceptionally high-capacity grade.

- 2
- ▲ 10 - 14 - 15 - 16

Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for catalysts.

- ▲ 9 - 10 - 14 - 15 - 16

Packaging Desiccants and Air Dryers

Packaging Desiccants include a number of adsorbents in small bag sizes for moisture protection of military gear, electrical and electronic devices, precision instruments and pharmaceutical products. PROTEK-SORB Packaging Desiccants are qualified under appropriate U. S. Government military specifications for use in providing dependable protection against moisture damage.

Air Dryers are used for protection of cameras, sporting goods, fishing tackle, and other moisture-sensitive objects in the laboratory, home, car and on board small boats. Available in two convenient sizes, Air Dryers can be reused indefinitely if regenerated according to directions on the package.

- 2 - 4
- ▲ 10 and by distributors located throughout the continental United States and Canada.

Petroleum Catalysts

Fluid cracking catalysts, including High Alumina (25%) for high activity and selectivity and Low Alumina (13%) for medium-range operations; Semi-Synthetic, a lower activity, clay-included catalyst for low conversion operations; SM-30 (silica-magnesia), an extremely active catalyst for the production of maxi-

mum yields of gasoline and light cycle oil; Zeolite catalysts, new ultra-stable, high-activity catalysts more selective with regard to coke and gasoline than any other catalysts.

Zeolite catalysts include:

XZ-15—the petroleum industry's first fluid zeolite catalyst employing the first ultra-stable type molecular sieve to be used in catalytic cracking.

XZ-25—the most economical catalyst available for providing improved gasoline yields, coke and gas selectivity. Now the standard of the industry, XZ-25 increases unit capacity and reduces catalyst usage.

XZ-25 PLUS—premium quality product providing very high activity and conversion of petroleum feed stocks.

XZ-36—an all-new fluid cracking catalyst with an advanced matrix structural design and a high molecular-sieve content. XZ-36 provides especially high fresh activity, proven stability and longer sieve life.

- 1 - 2 - 5 - 8
- ▲ 9 - 10 - 14 - 15 - 16

RANEY Active Catalysts and Catalyst Alloys

Highly active, finely-divided metal catalysts used in a great variety of hydrogenation, reduction and amination processes. In addition to the basic nickel compositions, Raney catalysts are also available in cobalt, copper and silver forms as well as others on special order. Finely divided alloy powders and granular materials are available for activation in your laboratory or plant.

- 7
- ▲ 10 - 12 - 14

Rare Earths and Thorium Chemicals

Available in both technical and high-purity grades for industrial applications such as glass polishing, carbon-arc electrodes, ceramics, metallurgical additives, gas mantles and nuclear systems.

- 3 - 6
- ▲ 11 - 13

Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Widely used as a selective adsorbent for gases and liquids, as a catalyst support, and as a desiccant for laboratory and research uses and for general applications. Specific applications include natural gas drying, treatment of feed streams for the chemical and petrochemical industries, removal of contaminants, as a desiccant in insulating glass windows, and as a drying and purifying agent for refrigerant systems, particularly air conditioning.

- 2
- ▲ 9 - 10 - 14 - 15 - 16 and by distributors located throughout the continental United States and Canada.

STABIFIX Silica Gel Beer Stabilizer

A finely divided amorphous silica gel for clarification and stabilization of beer through the removal of specific protein fractions.

- 2
- ▲ 10

SYLOID Micron-Sized Silicas

White, amorphous, finely-divided silica gel powders used for flattening and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and reproduction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals. Available in a variety of high purity and surface-treated grades.

- 2-5
- ▲ 10 Sold primarily by distributors located throughout the continental United States, Canada and Mexico.

Industrial Chemicals Group



DEWEY AND ALMY CHEMICAL DIVISION

Manufactures and markets a broad line of industrial chemical specialties including container sealing compounds, construction and building maintenance materials, organic chemicals, polymer-fiber materials, graphic arts products and vermiculite products.

Headquarters Office

62 Whittemore Avenue
Cambridge, Massachusetts 02140
(617) 876-1400

● Plants

UNITED STATES

- | | | |
|---|---|---|
| 1 ARIZONA, Phoenix (85031)
4220 West Glenrosa
P.O. Box 14279
(602) 272-6663 | 8 CALIFORNIA, San Francisco (94107)
550 Third Street
(415) GA 1-2937 | 17 GEORGIA, Atlanta (30336)
5225 Philip Lee Drive
(404) 344-8622 |
| 2 ARKANSAS, No. Little Rock (72114)
P.O. Box 294
(501) 945-1678 | 9 CALIFORNIA, San Leandro (94577)
2140 Davis Street
(415) LO 8-3427 | 18 GEORGIA, Atlanta (30306)
1187 Zonolite Place, N.E.
P.O. Box 8127, Station F
(404) 876-3681 |
| 3 CALIFORNIA, Huntington Park (90256)
6069 Maywood Avenue
(213) 589-6281 | 10 CALIFORNIA, Vernon (90058)
4400 District Boulevard
(213) 581-8683 | 19 GEORGIA, Atlanta (30318)
520 Permalume Place, N.W.
(404) 355-4739 |
| 4 CALIFORNIA, Los Angeles (90041)
California Zonolite Co.
758 Colorado Boulevard
P.O. Box 41077
(213) 254-5193 | 11 COLORADO, Denver (80223)
111 South Navajo Street
(303) 744-2746 | 20 GEORGIA, Brunswick (31520)
P.O. Box 130
(912) 265-6900 |
| 5 CALIFORNIA, Los Angeles (90022)
7237 East Gage Avenue
(213) 927-1461 | 12 FLORIDA, Boca Raton (33432)
1555 N.W. First Avenue
(305) 395-2424 | 21 GEORGIA, Chamblee (30005)
5238 Peachtree Road N.E.
(404) 457-5261 |
| 6 CALIFORNIA, Modesto (95353)
416 Hosmer Street
(209) 529-6210 | 13 FLORIDA, Boca Raton (33432)
Industrial Boulevard
P.O. Box 67
(305) 395-3103 | 22 ILLINOIS, Chicago (60608)
2512 West 24th Street
(312) 247-5600 |
| 7 CALIFORNIA, Newark (94560)
California Zonolite Co.
6851 Smith Avenue
P.O. Box 217
(415) 793-9111 | 14 FLORIDA, Hialeah (33010)
1050 S.E. 5th Street
(305) 885-2441 | 23 ILLINOIS, Chicago (60638)
6050 West 51st Street
(312) 767-3223 |
| | 15 FLORIDA, Jacksonville (32202)
1530 East Adams Street
(904) 355-8431 | 24 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 586-2627 |
| | 16 FLORIDA, Tampa (33605)
35th and 3rd Avenue
P.O. Box 5047 Ybor Station
(813) 248-1554 | 25 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 767-4282 |
| | | 26 ILLINOIS, Chicago (60643)
12300 South Ashland Avenue
(312) FU 9-4900 |

● Plants (continued)

- 27 KANSAS, Wichita (67214)**
616 Pennsylvania
(316) FO 3-6551
- 28 KENTUCKY, Owensboro (42301)**
Route 60 East, P.O. Box 61
(502) 683-1561
- 29 KENTUCKY, Wilders, Newport (41701)**
112 North Street
(606) 291-3500
- 30 LOUISIANA, New Orleans (70121)**
P.O. Box 10262
(504) 834-5817
- 31 MARYLAND, Beltsville (20705)**
P.O. Box 347
(301) 474-8200
- 32 MASSACHUSETTS, Acton (01720)**
RFD #1, P.O. Box 263
(617) 897-2905
- 33 MASSACHUSETTS, Adams (01220)**
Harmony Street
(413) 743-0546
- 34 MASSACHUSETTS, Cambridge (02140)**
62 Whittemore Avenue
(617) 876-1400
- 35 MASSACHUSETTS, Easthampton (01027)**
P.O. Box 112
(413) 527-1890
- 36 MASSACHUSETTS, Marlboro (01752)**
33 Hayes Memorial Drive
(617) 481-0900
- 37 MICHIGAN, Dearborn (48120)**
14300 Henn Avenue
(313) 846-1010
- 38 MINNESOTA, Minneapolis (55422)**
4725 Olson Highway
(612) 545-0481
- 39 MINNESOTA, Minneapolis (55418)**
660 19th Avenue N.E.
(612) 789-3539
- 40 MISSOURI, St. Louis (63110)**
1705 Sulphur Avenue
(314) 645-8786
- 41 MONTANA, Libby (59923)**
P.O. Box 607
(406) 293-4131
- 42 NEBRASKA, Omaha (68107)**
3520 "I" Street
(402) 731-3662
- 43 NEW JERSEY, North Bergen (07047)**
2133 85th Street
(New Jersey) (201) UN 9-5220
(New York) (212) LO 4-1747
- 44 NEW JERSEY, Trenton (08607)**
336 Whitehead Road
P.O. Box 2124
(609) 587-2571
- 45 NEW YORK, Long Island City (11101)**
21-24 39th Avenue
(212) 392-5300
- 46 NEW YORK, Weedsport (13166)**
P.O. Box 310
(315) 834-5711
- 47 NORTH CAROLINA, High Point (27260)**
1701 Prospect St. Ext.
P.O. Box 1306
(919) 888-9978
- 48 OHIO, Cleveland (44112)**
1125 West 11th Street
(216) MAin 1-3517
- 49 OREGON, Portland (97227)**
Vermiculite Northwest Inc.
2303 North Harding Street
(503) AT 8-5195
- 50 PENNSYLVANIA, Ellwood City (16117)**
12th St. & Factory Ave.
(412) 758-5548
- 51 PENNSYLVANIA, New Castle (16102)**
202 East Cherry Street
P.O. Box 1207
(412) 654-7721
- 52 PENNSYLVANIA, Quakertown (18951)**
45 N. Fourth Street
(215) 536-4600
- 53 SOUTH CAROLINA, Enoree (29335)**
(803) 495-3353
- 54 TENNESSEE, Nashville (37206)**
4061 Powell Ave.
(615) 242-5496
- 55 TEXAS, Houston (77008)**
611 West 22nd Street
(713) UN 4-5170
- 56 TEXAS, Houston (77001)**
4323 Crites Street
(713) FA 3-8354
- 57 WASHINGTON, Auburn (98002)**
P.O. Box A
(206) 852-5725
- 58 WASHINGTON, Spokane (99201)**
Vermiculite Northwest Inc.
North 1318 Maple Street
(509) FAirfax 5-2541
- 59 WISCONSIN, Milwaukee (53208)**
900 North 43rd Street
(414) 344-6667
- CANADA**
- 60 ALBERTA, Edmonton**
14810 123rd Avenue
(403) 455-9161
- 61 ONTARIO, Scarborough**
66 Hymus Road
(416) PL 9-4461
- 62 QUEBEC, Montreal, LaSalle**
255 Lafleur Avenue
(514) 368-3070
- PUERTO RICO**
- 63 RIO PIEDRAS**
Insular Highway 845, km. 0.5.
Cupey Bajo
767-7131

▲ Sales Offices

UNITED STATES

- | | | |
|--|---|--|
| <p>64 ARIZONA, Phoenix (85031)
4220 West Glenrosa
P.O. Box 14279
(602) 272-8863</p> <p>65 ARKANSAS, No. Little Rock (72114)
P.O. Box 294
(501) 945-1678</p> <p>66 CALIFORNIA, Burlingame (94010)
1141 California Drive
(415) 342-9038</p> <p>67 CALIFORNIA, Huntington Park (90256)
6069 Maywood Avenue
(213) 589-6281</p> <p>68 CALIFORNIA, Los Angeles (90041)
758 Colorado Boulevard
(213) 254-5193</p> <p>69 CALIFORNIA, Los Angeles (90041)
California Zonolite Co.
758 Colorado Boulevard
P.O. Box 41077
(213) 254-5193</p> <p>70 CALIFORNIA, Los Angeles (90022)
7237 East Gage Avenue
(213) 927-1461</p> <p>71 CALIFORNIA, Newark (94560)
California Zonolite Co.
6851 Smith Avenue
P.O. Box 217
(415) 793-9111</p> <p>72 CALIFORNIA, San Francisco (94107)
550 Third Street
(415) GA 1-2937</p> <p>73 CALIFORNIA, San Leandro (94577)
2140 Davis Street
(415) LO 8-3427</p> <p>74 COLORADO, Denver (80216)
P.O. Box 5023 Terminal Annex
(303) 388-4625</p> | <p>75 COLORADO, Denver (80223)
111 South Navajo Street
(303) 744-2746</p> <p>76 DISTRICT OF COLUMBIA, Washington (20005)
910 Brentwood Road, N.E.
(202) 338-6224</p> <p>77 FLORIDA, Boca Raton (33432)
1555 N.W. First Avenue
(305) 395-2424</p> <p>78 FLORIDA, Boca Raton (33432)
Industrial Boulevard
P.O. Box 67
(305) 395-3103</p> <p>79 FLORIDA, Clearwater (33516)
1828 Audubon Drive
(813) 446-7565</p> <p>80 FLORIDA, Hialeah (33010)
1050 S.E. 5th Street
(305) 885-2441</p> <p>81 FLORIDA, Jacksonville (32202)
1530 East Adams Street
(305) 355-8431</p> <p>82 FLORIDA, Tampa (33605)
35th and 3rd Avenue
P.O. Box 5047 Ybor Station
(813) 248-1554</p> <p>83 GEORGIA, Atlanta (30336)
5225 Philip Lee Drive
(404) 344-8622</p> <p>84 GEORGIA, Atlanta (30306)
1167 Zonolite Place, N.E.
P.O. Box 8127, Station F
(404) 876-3681</p> <p>85 GEORGIA, Atlanta (30318)
520 Permalume Place, N.W.
(404) 355-4739</p> <p>86 GEORGIA, Brunswick (31520)
P.O. Box 130
(912) 265-6900</p> <p>87 GEORGIA, Chamblee (30005)
5238 Peachtree Road N.E.
(404) 457-5261</p> <p>88 ILLINOIS, Chicago (60608)
2512 West 24th Street
(312) 247-5600</p> <p>89 ILLINOIS, Chicago (60638)
6050 West 51st Street
(312) 767-3223</p> | <p>90 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 586-2827</p> <p>91 ILLINOIS, Chicago (60638)
6051 West 65th Street
(312) 767-4282</p> <p>92 ILLINOIS, Chicago (60654)
Merchandise Mart Plaza
(312) 527-5700</p> <p>93 ILLINOIS, Chicago, (60643)
12300 South Ashland Avenue
(312) FU 9-4900</p> <p>94 KANSAS, Wichita (67214)
616 Pennsylvania
(316) FO 3-6551</p> <p>95 KENTUCKY, Wilders, Newport (41701)
112 North Street
(606) 291-3500</p> <p>96 LOUISIANA, New Orleans (70121)
P.O. Box 10262
(504) 834-5817</p> <p>97 MARYLAND, Baltimore (21202)
414 Water Street
(301) 752-6656</p> <p>98 MARYLAND, Beltsville (20705)
P. O. Box 347
(301) 474-8200</p> <p>99 MASSACHUSETTS, Cambridge (02140)
62 Whittemore Avenue
(617) 876-1400</p> <p>100 MASSACHUSETTS, Easthampton (01027)
P. O. Box 112
(413) 527-1890</p> <p>101 MASSACHUSETTS, Marlboro (01752)
33 Hayes Memorial Drive
(617) 481-0900</p> <p>102 MICHIGAN, Dearborn (48120)
14300 Henn Avenue
(313) 846-1010</p> <p>103 MICHIGAN, Pontiac (48054)
4500 Pontiac Lake Road
(313) 674-0028</p> |
|--|---|--|

▲ Sales Offices (continued)

- 104** MICHIGAN, Southfield (48075)
30524 Southfield, Apt. 219
(313) 642-8923
- 105** MINNESOTA, Minneapolis (55422)
4725 Olson Highway
(612) 545-0481
- 106** MINNESOTA, Minneapolis (55418)
680 19th Avenue, N.E.
(612) 789-3539
- 107** MINNESOTA, St. Paul (55104)
1793 Selby Avenue
(612) 645-5309
- 108** MINNESOTA, St. Paul (55104)
1282 University Avenue
(612) 646-4216
- 109** MISSOURI, St. Louis (63103)
2226 Olive Street
(314) 421-4647
- 110** MISSOURI, St. Louis (63110)
1705 Sulphur Avenue
(314) 645-8786
- 111** NEBRASKA, Omaha (68107)
3520 "I" Street
(402) 731-3662
- 112** NEW JERSEY, Chatham (07928)
323 Main Street
(201) 635-6280
- 113** NEW JERSEY, Ho-Ho-Kus (07423)
400 Hollywood Avenue
(201) 445-3626
- 114** NEW JERSEY, North Bergen (07047)
2133 85th Street
(New Jersey) (201) UN 9-5220
(New York) (212) LO 4-1747
- 115** NEW JERSEY, Ramsey (07446)
32 Finch Street
(201) 327-1809
- 116** NEW JERSEY, Trenton (08607)
336 Whitehead Road
P. O. Box 2124
(609) 587-2570
- 117** NEW YORK, Long Island City (11101)
21-24 39th Avenue
(212) 392-5300
- 118** NEW YORK, New York (10017)
122 East 42nd Street
(212) MO 1-3085
- 119** NEW YORK, Weedsport (13166)
P. O. Box 310
(315) 834-5711
- 120** NORTH CAROLINA, Charlotte (28209)
215 Manning Drive
(704) 525-0327
- 121** NORTH CAROLINA, High Point (27260)
1701 Prospect St. Ext.
P. O. Box 1306
(919) 888-9978
- 122** OHIO, Cincinnati (45208)
3164 Linwood Road
(513) 871-6162
- 123** OHIO, Cincinnati (45236)
4157 Hunt Road
(513) 793-6131
- 124** OHIO, Cleveland (44112)
1125 West 11th Street
(216) MA 1-3517
- 125** OHIO, Cleveland (Lakewood) (44107)
14820 Detroit Avenue
(216) 221-2249
- 126** OREGON, Portland (97227)
Vermiculite Northwest Inc.
2303 North Harding Street
(503) AT 8-5185
- 127** OREGON, Portland (97210)
3215 N.W. Yeon Avenue
(503) 222-4289
- 128** PENNSYLVANIA, Ellwood City (16117)
12th St. & Factory Ave.
(412) 758-5548
- 129** PENNSYLVANIA, New Castle (16102)
202 East Cherry Street
P. O. Box 1207
(412) 654-7721
- 130** PENNSYLVANIA, Philadelphia (19107)
919 Walnut Street
(215) 922-2278
- 131** PENNSYLVANIA, Quakertown (18951)
45 N. Fourth Street
(215) 536-4600
- 132** SOUTH CAROLINA, Traveler's Rest (29690)
P. O. Box 217
(803) 834-4144
- 133** TENNESSEE, Nashville (37206)
4061 Powell Avenue
(615) 242-5496
- 134** TENNESSEE, Nashville (37205)
200 Woodmont Circle
(615) 297-2713
- 135** TEXAS, Dallas (75247)
3200 Irving Boulevard
(214) ME 1-7210
- 136** TEXAS, Houston (77008)
611 West 22nd Street
(713) UN 4-5170
- 137** TEXAS, Houston (77001)
4323 Crites Street
(713) FA 3-8354
- 138** UTAH, Salt Lake City (84121)
1346 East 6860 South
(801) 255-8331
- 139** WASHINGTON, Auburn (98002)
P. O. Box A
(206) 852-5725
- 140** WASHINGTON, Auburn (98002)
Vermiculite Northwest Inc.
P. O. Box A
(206) 852-5725
- 141** WASHINGTON, Seattle (98125)
11520 Bothell Way N.E.
(206) 363-6943
- 142** WASHINGTON, Spokane (99201)
Vermiculite Northwest Inc.
North 1318 Maple Street
(509) FAirfax 5-2541

A Sales Offices (continued)

143 WISCONSIN, Milwaukee
(53208)
900 North 43rd Street
(414) 344-8867

144 WISCONSIN, Milwaukee
(53209)
4377 North Teutonia Avenue
(414) 445-0290

CANADA

145 ALBERTA, Calgary
701 Briggs Avenue, S.E.
(403) 273-4147

146 ALBERTA, Edmonton
14810 123rd Avenue
(403) 454-4511

147 BRITISH COLUMBIA,
Prince George
1910-1st Avenue
(604) 564-5044

148 BRITISH COLUMBIA,
Vancouver
1120 Hamilton Street
(604) 682-6544

149 BRITISH COLUMBIA,
Victoria
1545 Shasta Place
(604) 384-0417

150 MANITOBA, Winnipeg
Dubin & Sherwin Road
(204) 786-5681

151 ONTARIO, Oakville
111 Dundas Street
(416) 745-5841

152 ONTARIO, Scarborough
66 Hymus Road
(416) PL 9-4461

153 QUEBEC, Montreal, LaSalle
255 Lafleur Avenue
(514) 366-3362

154 SASKATCHEWAN, Regina
2100 Dewdney Avenue
(306) 569-0691

155 SASKATCHEWAN, Saskatoon
2013 Alberta Avenue
(306) 244-1553

PUERTO RICO

156 HATO REY
Banco Popular Center
Suite 1430
786-6020

■ Zonolite Processing
Distributors' Plants

UNITED STATES

157 HAWAII, Honolulu (96819)
842-A Mapunapuna Street
Tel. 895-105

158 MONTANA, Great Falls
(59401)
Robinson Insulation Co.
1226 North River Drive
P. O. Box 1419
(406) 453-1291

159 NEW MEXICO, Albuquerque
(87107)
Southwest Vermiculite Co.
5119 Edith Boulevard, N.E.
P. O. Box 6302
(505) 345-1633

160 NORTH DAKOTA, Minot
(59401)
Robinson Insulation Co.
626 Fourth Avenue, N.E.
P. O. Box 1782
(701) 24-191

161 OKLAHOMA, Oklahoma City
(73111)
201 North Eastern
P. O. Box 11402
(405) CE 2-2058

162 TEXAS, Dallas (75222)
Texas Vermiculite Company
2851 Manila Road
P. O. Box 6306
(214) ME 7-0900

163 TEXAS, Houston (77006)
Vermiculite Products, Inc.
3025 Maxroy Street
P. O. Box 7327
(713) 864-4487

164 TEXAS, Lubbock (79401)
Southwest Vermiculite Co.
Route 3, Box 191-8
(806) PO 3-1945

165 TEXAS, San Antonio (78204)
Texas Vermiculite Company
354 Blue Star
P. O. Box 9114, Guilbeau Sta.
(512) CA 3-5781

166 UTAH, Salt Lake City (84110)
Vermiculite Intermountain, Inc.
333 West First South
P. O. Box 2396
(801) 328-0117

CANADA

167 ALBERTA, Calgary
Grant Industries, a division of
Eddy Match Company, Ltd.
4030 Eighth Street, S. E.
Box 69, Postal Station "A"
(403) 243-2741

168 ALBERTA, Edmonton
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 174
(403) 424-5141

169 ALBERTA, Lethbridge
Grant Industries, a division of
Eddy Match Company, Ltd.
P. O. Box 1104
(403) 327-8568

170 BRITISH COLUMBIA,
Vancouver
Grant Industries, a division of
Eddy Match Company, Ltd.
476 Industrial Avenue
(604) 684-2267

171 BRITISH COLUMBIA,
Vancouver
Grant Industries, a division of
Eddy Match Company, Ltd.
1075 Melville Street
(604) 683-6831

172 MANITOBA, Winnipeg
Grant Industries, a division of
Eddy Match Company, Ltd.
760 Wall Street
(204) 722-2561

173 ONTARIO, St. Thomas
F. Hyde & Company, Ltd.
94 Woodworth Avenue
(519) ME 1-8790

174 ONTARIO, Toronto
Grant Industries, a division of
Eddy Match Company, Ltd.
24 Coronet Road
(416) 239-8191

AUTOMOTIVE PRODUCTS

Battery plate separators, glass fiber mats, wetting agents, battery dry charge process equipment and specialty papers.

PRODUCTS

DARAK-ARMORCOAT-ARMORIS Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass fiber mats attached for heavy duty usage. Packaged in corrugated cartons, approximately 2,000 per carton.

- 28 - 32 - 62
- ▲ 73 - 99 - 104 - 115 - 153

Glass Fiber Mats

Distributed to the battery industry. Used between separators and plates in industrial storage batteries. Cut to size and packaged in cartons to customer specifications.

- ▲ 73 - 99 - 104 - 115 - 153

Hurricane Battery Dry Charge Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

- 34
- ▲ 73 - 99 - 104 - 115 - 153

Specialty Papers

Saturating papers and other low and medium density papers. Used as a base material for latex, phenolic, glue-glycerine and other impregnations. Latex beater-addition papers also available. Grades, basis weights, thickness, colors and widths vary with customer requirements. Packaged in rolls.

- 28
- ▲ 99

Wetting Agents

Used by battery manufacturers to pre-wet plate separators in dry charge automotive storage batteries. Reduce surface tension and improve circulation of battery acid between the plates. Packaged in 5-gallon pails and 55-gallon drums.

- 28 - 32 - 62
- ▲ 73 - 99 - 104 - 115 - 153

CONSTRUCTION MATERIALS

Specialty products for construction and building maintenance.

DAREX CONCRETE PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- 5 - 9 - 23 - 24 - 34 - 60 - 61
- ▲ 70 - 72 - 74 - 76 - 83 - 90 - 99
- 103 - 107 - 114 - 122 - 127 - 135 - 137
- 138 - 145 - 146 - 148 - 149 - 150 - 152
- 153 - 154 - 155

HORN BUILDING PRODUCTS

Adhesives and Bonding Agents

Resin, latex and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

Caulks and Sealants

Acrylic, polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

Floor Materials

Products to maintain, protect and repair masonry surfaces. Includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

Specialty Products

Architectural, construction, and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

Waterproofing and Roofing Materials

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

- 5 - 8 - 24 - 43 - 56 - 61
- ▲ 70 - 72 - 74 - 76 - 83 - 90 - 99
- 103 - 107 - 114 - 122 - 127 - 135 - 137
- 138 - 145 - 146 - 148 - 149 - 150 - 152
- 153 - 154 - 155

ROCK PRODUCTS CHEMICALS

Air Entraining Additives

Saponified tall oil, sulfonated hydrocarbon and alkyl sulfonate type chemicals for use in manufacturing air entraining portland and masonry cements to give controlled air void systems in mortars and concretes.

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack tendencies in portland and other hydraulic cements.

Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- 9 - 23 - 34 - 45
- ▲ 73 - 80 - 152

SERVICISED HIGHWAY & HEAVY CONSTRUCTION PRODUCTS

Bridge Products

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

Joint Sealing Compounds

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

Premolded Joint Fillers

Cork, asphalt, sponge rubber, neoprene, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

Specialty Products

Form coatings and accessories, cures, hardeners and bonding agents for masonry construction and repair.

Waterstops

Rubber, PVC, and neoprene waterstops, fittings and accessories.

- 25 - 43 - 61
- ▲ 70 - 72 - 81 - 114 - 127 - 137
- 145 - 150 - 152 - 153

CONTAINER AND CHEMICAL SPECIALTIES

Flowed-in gasketing compounds and high-speed application machinery for hermetically sealing rigid containers such as metal and composite cans, pails and drums and for bottle crowns, jar closures and industrial parts. Container coatings; meteorological balloons; medical and industrial gas absorbents.

CONTAINER PRODUCTS

Aerosol Valve Cup Gasketing Compounds

Flowed-in, solvent base sealing compounds vulcanized in place to form tough, resilient gaskets that hold high pressures and resist attack by aggressive solvents in the package. Available in 55-gallon drums and 5-gallon pails.

- 23 - 32 - 62
- ▲ 76 - 83 - 88 - 90 - 151 - 153

Can Sealing Compounds

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary packs for food, oil, paints, solvents and other general line products. Available in tank car, tank truck or 55-gallon drums.

- 9 - 17 - 23 - 32 - 34 - 62
- ▲ 73 - 83 - 88 - 90 - 151 - 153

Composite Can Cements

Hot-melt Cements: Used to cement inner liner fold-back and as a butt-joint filleting adhesive. Firmly anchors the structural plies and inner liner and fills the butt-joint with a pack-resistant impermeable barrier. Packaged in paperboard cartons and Leverpaks.

Waterbase Cements: High-strength, high-mileage, rapid-drying adhesives for laminating spiral can body plies, inner liner plies and label stock. Packaged in 55-gallon drums and 5-gallon pails.

● 34

▲ 73 - 83 - 88 - 98 - 151 - 153

Composite Can Label Coating

Pigmented, polyvinylidene chloride, high-barrier coating for composite can label stock. Full range of colors, including metallic hues. Available in pails, drums or tank cars.

● 32

▲ 73 - 83 - 88 - 98 - 151 - 153

Composite Can Sealing Compounds

Flowed-in solvent-base compounds that form solid rubbery gaskets when air-dried or oven-dried. Prevent end seam wicking while insuring a hermetic end seal and increasing abuse resistance. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 17 - 23 - 32 - 62

▲ 73 - 83 - 88 - 98 - 151 - 153

Compound Application and Drying Equipment

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts at speeds up to 800 units per minute.

● 34

▲ 73 - 83 - 88 - 98 - 151 - 153

Crown Sealing Compounds

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of beverage bottle closures. Particularly effective for sealing the new, easy-open bottle caps and crowns. Available in 55-gallon drums and Leverpaks.

● 9 - 23 - 34 - 62

▲ 73 - 83 - 88 - 98 - 151 - 153

DARACAN Inner Barrier System

Polyvinylidene chloride coatings for composite containers. High barrier coating imparts low MVTR, low gas transmission and greaseproof properties to fiber

can stock, for packaging motor oil, frozen fruits and juices, paint, permanent anti-freeze, shortening and many other products. System includes pre-coat and optional slip-coat.

● 32

▲ 73 - 83 - 88 - 98 - 151 - 153

Dispersing Solvents

Used for dispersing and for diluting solvent-base sealing compounds. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 17 - 23 - 32 - 62

▲ 73 - 83 - 88 - 98 - 151 - 153

Drawing Emulsions and Drawing Lubricants

Used in sheet metal stamping operations to reduce wear on dies, reduce fracture of metal coatings and prevent excessive heat buildup. Packaged in 5-gallon pails and 15-gallon drums.

● 9 - 23 - 34 - 62

▲ 73 - 83 - 88 - 98 - 151 - 153

Flange Coatings

Solvent-base, waterbase or hot-melt compounds for coating flanges of composite cans. Coating functions as a contact adhesive, strengthens the end seam and seals flange cracks. Packaged in 55-gallon drums and 5-gallon pails.

● 9 - 32 - 34

▲ 73 - 83 - 88 - 98 - 151 - 153

Galvanizing Blanket Crystals

Inorganic chloride crystals used in galvanizing operations. Placed on the surface of molten zinc, crystals melt quickly and form a protective blanket, reducing formation of fumes, spattering of zinc and heat losses. Packaged in Leverpaks.

● 17 - 23 - 24

▲ 73 - 83 - 88 - 98 - 151 - 153

Industrial Gasketing Compounds

Solvent-base, waterbase or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.). Packaged in 5-gallon pails, drums and Leverpaks.

● 23 - 32 - 34

▲ 73 - 83 - 88 - 98 - 151 - 153

Jar Cap and Lid Gasketing Compounds

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol types also available for certain processed, non-processed and industrial packs. Packaged in 30-gallon drums.

● 9 - 17 - 23 - 32 - 34 - 62
▲ 73 - 83 - 88 - 98 - 151 - 153

Liquid Fluxes

Soldering fluxes which accelerate the wetting of metal by molten solder. Used for prefluxing or precleaning on can body makers and for hand soldering. Packaged in 5-gallon pails and 55-gallon drums.

● 9 - 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Non-Web Compounds

Used to reduce web formation when sealing compounds are applied by the die-lining process. Packaged in 5-ounce jars and 5-gallon pails.

● 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Organic Solders

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern. Packaged in 50-pound cartons and Leverpaks.

● 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Pail and Drum Sealing Compounds

For end seams of industrial pails and drums, flowed-in waterbase, or solvent base or polyurethane compounds that dry or cure into solid rubbery seals. For removable covers, flowed-in waterbase compounds and plastisols that dry or cure into foamed microcellular gaskets. Packaged in 5-gallon pails and 15-gallon drums.

● 9 - 17 - 23 - 32 - 34 - 62
▲ 73 - 83 - 88 - 98 - 151 - 153

Seam Dopes

Used as a patching material for leaky containers and, under certain conditions, as an end sealant. Packaged in 5-gallon pails and 55-gallon drums.

● 9 - 32 - 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Side Seam Cements

Used to seal side seams of metal containers and spiral seams of composite containers for packs, including

motor oils, frozen foods, frozen concentrates and dry foods. Packaged in 50-pound cartons and 140-pound Leverpaks.

● 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Soldering Crystals

Used by can manufacturers to clean solder rolls on automatic can body makers. Packaged in Leverpaks.

● 9 - 17 - 23 - 34 - 62
▲ 73 - 83 - 88 - 98 - 151 - 153

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

● 34
▲ 73 - 83 - 88 - 98 - 151 - 153

Wetting Agents, CANSURFASS

Used to improve performance of waterbase sealing compounds under adverse conditions. Reduces surface tension and allows the compound to spread over oily plate surfaces. Packaged in 5-ounce jars and 5-gallon pails.

● 9 - 23 - 34 - 62
▲ 73 - 83 - 88 - 98 - 151 - 153

BALLOONS

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for the U.S. Armed Forces, government weather agencies, government and private research groups and private businesses. Packaged to specification.

Captive Balloons and KYTOON Kits-Balloons

Used wherever instruments must be held captive at altitudes under 2,500 feet to carry aerial cameras, emergency radio antennas, air sampling instruments for air pollution studies, survey targets for civil engineering, radio relays and display advertising.

Ceiling Balloons

Standard means of ascertaining cloud ceilings. Burst diameter 2 feet.

Constant Level Balloons

Equipped with automatic valve to stop ascent at a predetermined altitude between 40,000 and 80,000 feet. Inflated diameter up to 35 feet.

Pilot Balloons

Observed telescopically from the ground to determine direction and velocity of winds up to 45,000 feet. Burst diameter 7 feet.

Radar Reflective Balloons

Carry reflective aluminum dipoles inside the skin for accurate radar tracking. Burst diameters range from pilot balloon to sounding balloon size.

Sea Marker Balloons and Other Products

Small balloons floated on water as temporary buoys during tide water oil surveys and off-shore explorations. Balloon inflation kits and related products.

Sounding Balloons

Carry scientific instruments to 140,000 feet for weather forecasting and to gather cosmic ray, solar radiation, aurora, air glow and other data from the upper atmosphere. Burst diameter up to 60 feet.

● 34
▲ 98 - 151 - 153

ABSORBENTS AND CATALYSTS**Gas Absorbents**

A mixture of hydrated lime, sodium hydroxide and potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption. Available in 5-gallon pails, 1-gallon cans, Canister Paks and pre-filled plastic cartridges to fit absorbers.

● 34
▲ 73 - 98 - 153 and through distributors to the medical trade throughout the United States and in Canada.

Industrial Catalysts

Catalysts for certain manufacturing processes, such as industrial gas scrubbing, filter systems, etc.

● 34
▲ 73 - 98 - 153

CHEMICAL SPECIALTIES**Shoe Products**

Shoe Cements: natural or synthetic liquid rubber latices, modified by other chemical powders, liquids or solids. Used for counters, combining, folding, box toes, sock linings, and shanks.

Insole material: cellulose fibers impregnated with synthetic rubber and plastic latices.

● 62
▲ 153

Coating Bases

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, jewelry boxes, portable radio cases, etc. Available in a variety of grades, colors, widths and thicknesses.

● 62
▲ 153

ORGANIC CHEMICALS

Polyvinylidene chloride and styrene butadiene latices, vinyl acetate homopolymer and copolymer emulsions, dispersing agents, plasticizers, resins and specialty chemicals used in paints, paper coatings, adhesives, carpets, textiles, plastics, rubber and other applications.

ORGANIC CHEMICALS PRODUCTS**DARAN Paper Coating Latices**

Polyvinylidene chloride (saran) latex for high barrier packaging applications. Forms films which exhibit extreme barrier protection against water, water vapor, grease, oils and gases. Available in drums or in bulk.

● 28 - 32
▲ 73 - 83 - 98 - 99 - 112 - 153

DARATAC Adhesive Emulsions

Polyvinyl acetate emulsions for adhesives, surface coatings, primer sealers and textile and leather finishes. Available in drums or in bulk.

● 28 - 34
▲ 73 - 83 - 98 - 99 - 112 - 153

DAREX Carpet and Textile Latexes

Styrene butadiene latex for use in carpet and textile backings. Available in drums or in bulk.

- 28 - 32
- ▲ 73 - 83 - 89 - 99 - 112 - 153

DAREX Coating Emulsions

Acrylonitrile and styrene butadiene latexes, vinyl acetate, and acrylic emulsions for coatings, saturating, mastics, industrial finishes and specialty products. Available in drums or in bulk.

- 28 - 32 - 34
- ▲ 73 - 83 - 89 - 99 - 112 - 153

DAREX Copolymer Resins

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles, floor tiles, etc. Available in 50-pound bags.

- 32
- ▲ 73 - 83 - 89 - 99 - 112 - 153

DAREX Plasticizers

Dibutyl maleate and dibutyl fumarate. May be copolymerized with many monomers such as vinyl chloro-

ride, vinyl acetate, vinylidene chloride and styrene. Available in drums or in bulk.

- 32
- ▲ 73 - 83 - 89 - 99 - 112 - 153

DAREX 88L Pigment Binder

Ultra-micro-particle size polyvinyl acetate pigment binding emulsion for use in paper coatings. Available in drums or in bulk.

- 28 - 39
- ▲ 73 - 83 - 89 - 99 - 112 - 153

DAXAD Dispersing Agents

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, pigment dispersions, tanning, water treatment and other industries. Available in 50-pound bags.

- 34
- ▲ 73 - 83 - 89 - 99 - 112 - 153

EVERFLEX Paint Emulsions

Vinyl acetate copolymer emulsions for paints, paper coatings, acoustical tile coatings and specialty industrial finishes. Available in drums or in bulk.

- 28 - 34
- ▲ 73 - 83 - 89 - 99 - 112 - 153

POLYFIBRON

Saturating and other specialty papers; polymer-impregnated fiber bases for paper tapes, artificial leather, and book covers; offset and letterpress printing blankets; textile printing blankets and wet finishing equipment; printing, lithographic and mechanical rollers, printing plate adhesives, rubber plate gum, and molded products.

POLYFIBRON PRODUCTS

POLYFIBRON Coating Bases

Latex-saturated fiber base for artificial leather coatings. Used for book covers, luggage, handbags, jewelry boxes and portable radio cases. Available in a variety of grades, colors and widths and in thicknesses of .008 inch to .030 inch. Packaged in roll lengths of 200 to 500 yards.

- 62
- ▲ 153

POLYFIBRON Letterpress Packing Blankets

Compressible polymer-fiber material surfaced with rubber or plastic. Used as packing on flatbed and rotary letterpress equipment. Available in six types and in sizes to fit all standard presses. Also cut to customer specifications. Packaged in tubes or flat cartons.

- 33
- ▲ 88

IDEAL Mechanical Rollers

Covering of new and used mechanical rollers with natural and synthetic rubber materials. Used for idler guide, carrier, impression laminating and coating rollers for industries such as paper, textile, steel and tanning.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

IDEAL Molded Products

Compounding and molding of synthetic rubber polymers for products which are subjected to high and low temperatures and which require chemical and abrasion resistance.

- 22
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

POLYFIBRON Offset Printing Blankets

Unique material of compressible polymer fiber surfaced with flexible rubber. Used on commercial offset presses and duplicators to transfer printed images from the plate cylinder to the paper stock. Available in one piece, or two-piece construction with replaceable face, in all sizes to fit commercial presses and duplicators. Packaged in tubes or to customer specifications.

- 33
- ▲ 99

IDEAL Printing Plate Adhesives

Natural rubber adhesives used to adhere duplicate printing plates to flexographic printing press cylinders.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

DAXENE Printing Plate Compound

Thermosetting plastic material used for molding flat-bed or rotary letterpress printing plates. Available in a variety of formulations to produce hard plates for fine line printing—or soft plates for printing on box-board and paperboard. Packaged in 5-gallon pails and 55-gallon drums.

- 33
- ▲ 99

IDEAL Printing and Lithographic Rollers

Covering of new and used rollers for the graphic arts industry. Covering materials include synthetic rubber polymers and plastics. Rollers are used to transfer ink to the printing plate on letterpress and offset printing presses and as pressure rolls on rotogravure printing presses.

- 3 - 21 - 22 - 36 - 45
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

IDEAL Rubber Plate Gum

Thermosetting, natural and synthetic rubber materials used for molding typographic and flexographic

duplicate printing plates. Available in a variety of formulations in sheet form. Used extensively in the printing of packaging materials, books and business forms.

- 22
- ▲ 66 - 67 - 79 - 87 - 88 - 97 - 101
- 106 - 109 - 113 - 117 - 120 - 123 - 125
- 130 - 133 - 141 - 144

ENDURA Tape and Specialty Backings

Latex-saturated paper backings for pressure sensitive tapes, waterproof sandpaper and release liners. Available with barrier coats, release coats and bonding coats, singly or in combination. Grades, widths, roll lengths, colors and packaging to customer specifications.

- 52
- ▲ 131

DAREX Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

- 34
- ▲ 99

DAREX Textile Printing Blankets

Roller Printing Blankets: Wide, fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: Wide, fabric-and-rubber laminated, continuous, smooth-surfaced belts.

Lapping Blankets: Wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

- 33
- ▲ 99

ZONOLITE

Mines, processes and markets vermiculite and verxite; processes and markets perlite; manufactures and markets polystyrene foam board and related equipment; markets glass fiber insulation. Zonolite's major markets are building construction, agriculture and industry.

ZONOLITE PRODUCTS

Glass Fiber Insulation

Glass fiber insulating blankets with backing of kraft paper or of reflective aluminum. Insulation for walls, floors, attics and lofts. Sold in 200-400 sq. ft. rolls.

- Stocks at 28 distribution stations located throughout the United States.
- ▲ 84 - 85 - 88 - 71 - 75 - 77 - 78
- 89 - 91 - 92 - 94 - 92 - 93 - 95
- 96 - 98 - 100 - 102 - 105 - 110 - 111
- 116 - 119 - 121 - 126 - 128 - 133 - 136
- 140 - 142 - 143

Perlite

An inert, siliceous volcanic rock that expands when heated to produce a lightweight (8 to 12 lbs./cu. ft.) granular product. Variety of uses includes:

Building Construction: Aggregate for mixing with gypsum or portland cement for lightweight plaster, fireproofing and roof insulation; ingredient in acoustical tile.

Agriculture: Soil conditioner; seed starter; plant propagator.

Industrial Products: Filter aid; cryogenic insulation.

Perlite is available in multiwall paper bags.

- 11 - 14 - 18 - 29 - 31 - 38 - 42
- 44 - 59 and stocks at additional locations throughout the United States.
- ▲ 65 - 75 - 78 - 80 - 81 - 82 - 84
- 82 - 83 - 85 - 86 - 88 - 100 - 102
- 105 - 110 - 111 - 116 - 119 - 121 - 128
- 143

Polystyrene Molded Foam Board

Plain finish polystyrene molded foam board or laminated with paper or foil or with other decorative covering. Uses include: Insulation for walls, floors and building perimeters; thermal insulation for farm buildings and for metal buildings; insulation for walk-in coolers and freezers; insulation base for plaster; backer board for metal siding; flotation of docks, rafts

and boats; shock absorber in packages; insulation and cushioning in industrial applications. Sold by the board foot in minimum quantities of 1,000 bd. ft.

- 2 - 5 - 10 - 12 - 19 - 27 - 30 - 31
- 35 - 37 - 40 - 48 - 51 - 55 - 57 - 59
- and at additional locations throughout the United States.
- ▲ 64 - 65 - 68 - 69 - 71 - 75 - 77
- 78 - 80 - 81 - 82 - 84 - 85 - 82
- 93 - 94 - 95 - 96 - 98 - 100 - 102
- 105 - 110 - 111 - 116 - 119 - 121 - 124
- 126 - 128 - 129 - 136 - 138 - 140 - 142
- 143

Polystyrene Molded Foam Board Manufacturing Equipment
Specialty molding and cutting equipment for the manufacture of polystyrene molded foam board.

- 12
- ▲ 77 - 82

Roof Deck Materials—"Concrete Products"

Mineralized wood fiber material and pre-cast concrete slabs used in building construction as roof-deck material for steel or concrete framed buildings. 1) Structural wood fiber roof slabs. (Acoustical and insulation properties.) PERMADECK tile in size 1"x32"x96" and PERMADECK plank in sizes 1"x2"x32"x96"; 2½"x32"x96"; 3"x32"x96". Other sizes available on special order. Accessories available for installation such as Bulb Tees, Sub-Purlins and clips. 2) Pre-cast concrete channel slabs, 3¼" or 4¼" thicknesses in various lengths with required clips and accessories.

- 20
- ▲ 86 - 92

Roof Deck Materials—PERL-TILE

Pre-cast, light-weight, Perlite concrete roof slabs—PERL-TILE tiles available in 18" and 24" widths, 3" and 4" thicknesses, and required lengths between 3' and 10'.

- 39
- ▲ 92 - 95 - 100

Vermiculite

A micaceous mineral that expands when heated or subjected to specific chemical reactions to produce a dry, lightweight (4 to 12 lb./cu. ft.) granular product having high internal porosity and resilience. Produced in six particle sizes for a wide variety of uses, including:

Building Construction: Loose fill insulation for attics, lofts, wall spaces and insulating blocks; aggregate for use with gypsum in lightweight, fireproofing plaster; aggregate for use with portland cement in lightweight, fireproof concrete for floor, roof and roof deck insulation; acoustical coating for machine spraying to ceilings and other surfaces.

Agriculture, Home Gardening, and Outdoor Living: Anti-caking agent for high analysis farm fertilizer; chemical carrier for pesticides, herbicides, and plant nutrients; firebase for charcoal in outdoor grills; soil conditioner; mulch; seed starter; plant propagator.

Industrial Uses: Additive in fireproofing compounds; insulation of coke ovens; slow cooling of forgings; grease absorbent ingredient; packaging and shipping.

Vermiculite is available in multiwall paper bags and in bulk.

- 1 - 2 - 4 - 7 - 11 - 13 - 15
16 - 18 - 26 - 29 - 36 - 31 - 35
37 - 38 - 40 - 41 - 42 - 44 - 46
47 - 49 - 50 - 53 - 54 - 56 - 58
63
- ▲ 64 - 65 - 66 - 69 - 71 - 75 - 78
81 - 82 - 84 - 85 - 86 - 88 - 89
96 - 100 - 102 - 105 - 110 - 111 - 116
118 - 119 - 121 - 126 - 128 - 132 - 133
140 - 142 - 143 - 156
- Processing Distributors 157 through 174

Verzite

Exfoliated hydrobiotite. Carrier for animal feed supplements, nutrients and antibiotics. Bulking agent for animal feed. Available in 25-pound bags.

- 41 - 53
- ▲ 82 - 132

Industrial Chemicals Group



HAMPSHIRE CHEMICAL DIVISION

Manufactures and markets amino acid chelating or sequestering agents and sarcosine surfactants.

General Office

Poisson Avenue
Nashua, New Hampshire 03060
(603) 883-7725

● Plant

1 NEW HAMPSHIRE, Nashua
(03060)
Poisson Avenue
(603) 883-7725

▲ Sales Office

2 NEW HAMPSHIRE, Nashua
(03060)
Poisson Avenue
(603) 883-7725

PRODUCTS

Chelating Agents

Chemical compounds used to neutralize the undesirable effects of hard water metallic impurities in textile processing, soap and detergent manufacture and other chemical processes and as a scale formation preventative in industrial uses of water. Also used in stabilizing rubber latices, as a fertilizer additive and in a wide variety of specialty applications. Available in liquid form in drums and tank trucks and tank cars, in powder form in 50-pound multiwall bags or, upon request, in 125- or 200-pound fiber drums.

Includes EDTA (ethylenediaminetetraacetic acid), NTA (nitrilotriacetic acid) and other amino acid chelates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

Surfactants

Chemical compounds used in the manufacture of soaps, shampoos, dentifrices, shaving creams and other washing and cosmetic products to improve foaming, lathering and cleansing properties. Available in drums and in tank trucks and tank cars.

Includes sarcosine surfactants and sarcosinates.

● 1

▲ 2, and at 35 distributor locations throughout the United States.

GRACE

OVERSEAS CHEMICAL DIVISION

Manufactures and markets a broad line of chemical products in Europe, the United Kingdom, Africa, Asia, Australia and the Pacific area. Product lines include agricultural chemicals; automotive products; construction chemicals and adhesives; container sealing compounds and application equipment; converted plastics; packaging products and equipment; specialty chemicals including chemical intermediates, industrial-institutional cleaning compounds, printing products, tape and backings, water treatment chemicals and services, meteorological balloons and pharmaceuticals.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● Plants

AUSTRALIA

- 1** Josh Abrahams & Son Pty. Ltd.
17-29 William Street
Botany, N.S.W.
Tel. 666-7932
- 2** Josh Abrahams & Son Pty. Ltd.
1126-1134 Sydney Road
Fawkner, Victoria
Tel. 35-02-31
- 3** W. R. Grace Australia Pty. Ltd.
17-29 William Street
Botany, N.S.W.
Tel. 666-7932
- 4** Josh Abrahams & Son Pty. Ltd.
1283 Kingsford Smith Drive
Eagle Farm, Brisbane,
Queensland
Tel. 60-4115
- 5** Josh Abrahams & Son Pty. Ltd.
69 Leadenhall Street
Port Adelaide
South Australia
Tel. 4-1036
- 6** W. R. Grace Australia Pty. Ltd.
General Office:
1126-1134 Sydney Road
Fawkner, Victoria
Tel. 35-02-31
- 7** Highley Plastics Proprietary Ltd.
1 Hale Street
(Botany) Sydney
Tel. 666-8536
- 8** Highley Plastics Sales
(Victoria) Pty. Ltd.
653 Waterdale Road
(West Heidelberg)
Melbourne
Tel. 45-4978

9 Omicron Proprietary Limited
Bulla Road
Airport West, Victoria
Tel. 379-6443

FRANCE

- 10** Grace S.A.R.L.
Epernon (Eure et Loir)
Tel 817 a Rambouillet
(Eure et Loir)
- 11** Teroson et Protection
Chimiques S.A.
44 Bis Avenue Jean Jaures
Pantin 93
Tel. 845-85-30

GERMANY

- 12** No longer a
working number.
- 13** Grace G.m.b.H.
Friedrichsgabe
Post Harksheide, Bezirk
Hamburg
Mail: P.O. Box 7-10
Hamburg
Tel. (0411) 527271
- 14** Grace G.m.b.H.
638 Bad Homburg V.d. Höhe
Postfach 251
Tel. 23068
- 15** Pillnay-Lacke Darex
G.m.b.H. & Company
Bruhler Strasse 2-20
53 Bonn (Rhein)
Mail: P.O. Box 7-10
Hamburg
Tel. Bonn 663031/2
- 16** Teroson-Werke G.m.b.H.
Chemische Fabrik
Hans-Bunte Strasse 4
6900 Heidelberg 1
Mail: P.O. Box 1720
6900 Heidelberg 1
Tel. (06221) 73221

GREECE

- 17** Grace Hellas E.P.E.
Odos Tavros

ITALY

- 18** Grace Italiana S.p.A.
Via Trento 7
Passirana di Rho (Milan)
Mail: Caselle Postale 4171
Milan
Tel. 93.35.81-2-3-4
- 19** Grace Italiana S.p.A.
Via Mugnano 7
Melito di Napoli
Tel. 33.64.61-2-3
- 20** Boston S.p.A.
Via Quattro Novembre
Bollate (Milan), Italy
Tel. 902-3491

JAPAN

- 21** W. R. Grace Kabushiki Kaisha
Kaneda, Atsugi-SHI
Kanagawa-Ken
- 22** Fuji-Davison Chemical Ltd.
No. 1846-2-chome Kozoji-Cho
Tel. Kozoji 234-529-451
- 23** Nipon DuBois KK
Gotanda

NEW ZEALAND

- 24** W. R. Grace (N.Z.) Limited
Prosser Street
Elsdon, Porirua
Wellington
Mail: P.O. Box 4, Porirua
Wellington
Tel. Porirua 8149
- 25** Highley Plastics (N.Z.) Limited
Plastak Sales (N.Z.)
Western Hutt Road
Belmont (Lower Hutt)
Tel. Wellington 65-227

● Plants (continued)

PHILIPPINES

- 26 W. R. Grace (Philippines) Inc.
18 Cristobal Street
Paco
Manila
Tel. 502 961

SOUTH AFRICA

- 27 W. R. Grace Africa
(Proprietary) Ltd.
Mill and Iscor Roads
Bellville, Cape Province
Mail: P.O. Box 274
Bellville, Cape Province
Tel. 97-1771

SPAIN

- 28 Grace Española, S.A.
Carreta de Cornella a Gava
(C-246), KM-10 San Baudilio
de Llobregat
Barcelona
Mail: Apartado Postal 523
Barcelona
Tel. 231.70.13
- 29 Pilman S.A.
Calle Santa Anna, Sadañola
(Barcelona Province)
- 30 Teroson Española S.L.
Calle Los Cinquenta No. 32
Barrio de San Gabriel
Alicante
Tel. 22-05-17

SWEDEN

- 31 Rexolin Chemicals Aktiebolag
Drottninggatan 72A
Helsingborg
Tel. 12-76-40

UNITED KINGDOM

- 32 Detarex Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 33 W. R. Grace Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 34 W. R. Grace Limited
Flexible Packaging Division
Cromwell Gardens
St. Neots, Huntingdonshire
Tel. St. Neots 680
- 35 Silica Gel Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535
- 36 Serviced Limited
Slough Trading Estate
Slough, Bucks
Tel. Slough 26354

- 37 Grace Dubois Ltd.
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

▲ Sales Offices

AUSTRALIA

- 38 Josh Abrahams & Son Pty. Ltd.
1729 William Street
Botany, N.S.W.
Tel. 666-7932
- 39 Josh Abrahams & Son Pty. Ltd.
1126-1134 Lydary Road
Fawkner, Victoria
Tel. 35-02-31
- 40 Josh Abrahams & Son Pty. Ltd.
1283 Kingsford Smith Drive
Eagle Farm, Brisbane,
Queensland
Tel. 60-4115
- 41 Josh Abrahams & Son Pty. Ltd.
69 Leadenhall Street
Port Adelaide, South Australia
Tel. 4-1036
- 42 W. R. Grace Australia Pty. Ltd.
General Office:
1126-1134 Sydney Road
Fawkner, Victoria
Tel. 35-0231
- 43 W. R. Grace Australia Pty. Ltd.
1729 William Street
Botany, N.S.W.
Tel. 666-7932
- 44 W. R. Grace Australia Pty. Ltd.
MLCC Bldg.
Sydney
- 45 W. R. Grace Australia Pty. Ltd.
1283 Kingsford Smith Drive
Eagle Farm, Brisbane,
Queensland
Tel. 60-4588
- 46 W. R. Grace Australia Pty. Ltd.
177 Halifax Street
Adelaide, South Australia
Tel. 23-1639
- 47 W. R. Grace Australia Pty. Ltd.
134 Oats Street
Carlisle, Western Australia
Tel. 6-3225
- 48 Highley Plastics Proprietary Ltd.
1 Hale Street
(Botany) Sydney
Tel. 666-8536
- 49 Highley Plastics Sales
(Victoria) Pty. Ltd.
653 Waterdale Road
(West Heidelberg)
Melbourne
Tel. 45-4978

- 50 Omicron Proprietary Limited
Bulla Road
Airport West, Victoria
Tel. 379-6443

AUSTRIA

- 51 Teroson-Werke
Gesellschaft m.b.H.
Chemische Fabrik
Ferinandstrasse-16-18
Vienna II
Tel. 241367

DENMARK

- 52 W. R. Grace A/S
"Noerreport"
Frederiksborggade, 15
Copenhagen K
Tel. Copenhagen 151514

FINLAND

- 53 OY Borg Huolto-Service AB
Sevonkatu, 27
Kouvola
Tel. 22-47

FRANCE

- 54 Borg Service S.A.
64 Rue Marjolin
Levallois-Perret (Seine)
Tel. 73-77-541
- 55 Grace S.A.R.L.
114 Avenue de Neuilly
92 Neuilly,
Tel. 637-54-30
- 56 Grace S.A.R.L.
151 bis Avenue Aristide Briand
Mulhouse
Tel. 46-29-84
- 57 Teroson et Protection
Chimiques S.A.
44 Bis Avenue Jean Jaures
Pantin 93
Tel. 845-85-30

GERMANY

- 58 No longer a
working number.
- 59 Borg Service G.m.b.H.
Heldenstrasse 351
Tel. 71-60-01
- 60 Grace G.m.b.H.
Friedrichsgabe
Post Harkheide, Bezirk
Hamburg
Mail: P.O. Box 7-10
Hamburg
Tel. (0411) 527271
- 61 Grace G.m.b.H.
638 Bad Hornburg V.d. Höhe
Postfach 251
Tel. 23068

62 Pillnay-Lacke Dorez
G.m.b.H. & Company
Brühler Strasse 2-20
53 Bonn (Rhein)
Mail: P.O. Box 7-10
Hamburg, Germany
Tel. Bonn 663031/2

63 Teroson-Werke G.m.b.H.
Chemische Fabrik
Hans-Bunte Strasse 4
6900 Heidelberg 1
Mail: P.O. Box 1720
6900 Heidelberg 1
Tel. (06221) 73221

GREECE

64 Grace Hellas E.P.E.
6 Aristidou Street
Athens
Tel. Athens 66 002

HONG KONG

65 W. R. Grace (Hong Kong) Ltd.
109 Edinburgh House
Tel. 221618 & 28

ITALY

66 Borg Service S.p.A.
Via Trento 7
Passirana di Rho (Milan)
Tel. 93-35-81

67 Grace Italiana S.p.A.
Via Trento 7
Passirana di Rho (Milan)
Mail: Caselle Postale 4171
Milan
Tel. 93.35.81-2-3-4

68 Boston S.p.A.
Via Quattro Novembre
Bollate (Milan), Italy
Tel. 902-3491

JAPAN

69 Fuji-Davison Chemical Ltd.
No. 1846-2-chome Kozoji-Cho
Kasugai-ahi, Aichi-ken
Tel. Kozoji 234-529-451

70 W. R. Grace Kabushiki Kaisha
Azabudai Building
13-3-Chome Azabu Jikura-Machi
Minato-ku, Tokyo
Tel. 583-1171-3

71 Nippon-DuBois K.K.
Azabudai Building
13-3 chome Azabu Jigura-Machi
Minato-Ku
Tokyo
Tel. 583-1171-3

NETHERLANDS

72 Grace (Nederland) N.V.
Groothandelgebouw A-7
Rotterdam
Tel. Rotterdam 119690

NEW ZEALAND

73 W. R. Grace (N.Z.) Limited
Prosser Street
Elsdon, Porirua
Wellington
Mail: P.O. Box 4, Porirua
Wellington
Tel. Porirua 8149

74 Highley Plastics (N.Z.) Limited
Plastak Sales (N.Z.)
Western Hutt Road
Belmont (Lower Hutt)
Tel. Wellington 65-227

PHILIPPINES

75 W. R. Grace (Philippines) Inc.
16 Cristobal Street
Paco
Manila
Tel. 502 961

PORTUGAL

76 Grace Portuguesa
(Produtos Quimicos y
Plasticos) Limitada
Avenida da Republica No. 5 45
Matosinhos
Tel. 93-31-19

SOUTH AFRICA

77 W. R. Grace Africa
(Proprietary) Ltd.
Mill and Iscor Roads
Bellville, Cape Province
Mail: P.O. Box 274
Bellville, Cape Province
Tel. 97-1771

78 W. R. Grace Africa
(Proprietary) Ltd.
36 Reserve Street
Braamfontein, Johannesburg
Tel. 724-3806

SPAIN

79 Borg Service SAE
Almirante 10
Madrid
Tel. 2-22-11-39

80 Grace Española, S.A.
Provenza N° 260 5°
Barcelona
Mail: Apartado Postal 523
Barcelona
Tel. 215.51.2

81 Pilman S.A.
Provenza N° 260 5°
Barcelona
Tel. 215.51.2

82 Teroson Española S.L.
Calle Arayaca No. 22
Madrid
Tel. 233.6051

SWEDEN

83 Borg Service AB
Drottninggatan 72A
Helsingborg
Tel. 12-76-40

84 Rexolin Chemicals Aktiebolag
Drottninggatan 72A
Helsingborg
Tel. 12-76-40

SWITZERLAND

85 Borg Holding AG
Gubelstrasse 5, Gubelhof
6300 Zug
Tel. 48-5-48

86 Grace A-G
Neugasse, 6
Zurich 5
Tel. 42-47-11

UNITED KINGDOM

87 Borg Service Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

88 Detarex Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

89 W. R. Grace Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

90 Silica Gel Limited
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

91 Serviced Limited
2 Caxton Street
London S.W. 1
Tel. Sullivan 2632

92 Grace Dubois Ltd.
Elveden Road
Park Royal
London N.W. 10
Tel. Elgar 6535

AUTOMOTIVE PRODUCTS

Automotive Maintenance Products

A complete line of auto cleaners, polishes, radiator cleaners and sealers, rust inhibitors, windshield cleaners, engine cleaners, spot removers, anti-corrosion coatings and other automotive maintenance products.

- 7 - 8 - 11 - 16 - 20 - 25 - 30 - 33
- ▲ 51 - 52 - 57 - 63 - 66 - 70 - 74 - 82 - 88

Battery Separators

Impregnated fiber insulators used to separate positive and negative plates in automotive storage batteries. Available with glass fiber mats attached for heavy-duty usage.

- 13 - 18
- ▲ 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 78 - 80 - 89

Sealers and Sealants

Sealing mastics based on rubber, rubber-bitumen, SBR and plastisol for use in car manufacture, assembling and maintenance, as well as sealers and bonding materials for the construction and metal fabricating industries.

Sound Deadeners

Sound and vibration deadening products based on rubber, rubber-and-bitumen, and PVC; in liquid, sheet and multi-layer forms for use in car, bus, truck and train coach manufacture, as well as for the metal fabricating industry.

- 7 - 8 - 11 - 16 - 20 - 25 - 30 - 33
- ▲ 51 - 52 - 57 - 63 - 66 - 70 - 74 - 82 - 88

CONSTRUCTION CHEMICALS & ADHESIVES

DAREX PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

Air Entraining Admixtures

Aqueous solutions for controlled entrainment of microscopic air bubbles in concrete and mortar to resist damage from freezing and thawing.

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack set tendencies in portland and hydraulic cements.

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- 3 - 6 - 10 - 16 - 18 - 21 - 24 - 26
- 27 - 28 - 31 - 36
- ▲ 42 - 43 - 46 - 52 - 55 - 63 - 64
- 65 - 67 - 70 - 73 - 75 - 77 - 78
- 84 - 91

CONSTRUCTION MATERIALS

Adhesives and Bonding Agents

Resin, latex, and polysulfide compounds for masonry patching and resurfacing, for plaster bonding and for surface bonding of concrete, toppings and aggregates.

Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

Floor Materials

Products to maintain, protect and repair masonry surfaces; includes hardeners, toppings, coloring agents, sealers, anti-corrosion treatments, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

Specialty Products

Architectural, construction and maintenance products related to masonry work. Includes curing, form coating and cleaning compounds; construction equipment and accessories.

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat and acid-resistant coatings and swimming pool coatings.

Waterproofing and Roofing Materials

Complete line of mastic, spray coat and integrally mixed moisture control products. Above and below grade treatments for masonry to increase water resistance; fabrics, mastics and aluminized coatings for built-up roof construction and maintenance.

- 3 - 10 - 16 - 20 - 26 - 36
- ▲ 42 - 43 - 46 - 52 - 55 - 63 - 64 - 65
- 67 - 70 - 73 - 75 - 77 - 78 - 91

SERVICISED PRODUCTS**Bridge Products**

Neoprene and laminated neoprene bridge pads and asphalt plank for highway and railroad bridges.

Joint Sealing Compounds

Rubberized asphalt and thermoplastic, two-component polymer and two-component butyl compounds for highway and heavy construction applications.

Premolded Joint Fillers

Cork, asphalt, sponge rubber, plastic foam and cane fiber joint filling and back-up materials for expansion, contraction and other construction joints.

Specialty Products

Form coating and accessories, cures, hardeners and bonding agents for masonry construction and repair.

Waterstops

Rubber, PVC and neoprene waterstops, fittings and accessories.

- 36
- ▲ 42 - 52 - 55 - 63 - 65 - 77 - 78 - 91

ADHESIVES**Shoe Products**

Shoe adhesives, leather stains and polishes, leather dyes, pigments and shoe waxes.

- 16 - 20
- ▲ 63 - 64 - 68

Special and General Adhesives

Custom-tailored, special purpose adhesives based on natural rubber, synthetic rubber, SBR, NBR or resin for the automotive, construction, flooring, shoe and appliance industries, as well as a broad line of general purpose adhesives for industry.

- 11 - 16 - 20 - 30
- ▲ 42 - 43 - 52 - 55 - 57 - 63 - 64 - 65
- 68 - 70 - 73 - 77 - 80 - 82 - 89

CONTAINER PRODUCTS**Aerosol Valve Cup Gasketing Compounds**

Flowed-in sealing compound vulcanized in place to form a tough, resilient gasket that holds high pressures and resists attack by aggressive solvents in the package.

- 6 - 10 - 13 - 19 - 21 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 80 - 89

Can Sealing Compounds

Flowed-in compounds (waterbase or solvent base) that dry or cure into solid, rubbery gaskets. Applied to container ends for hermetic sealing of sanitary foods, oil, paint, solvents and other general line products.

- 6 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 73 - 77 - 80 - 89

Compound Application and Drying Equipment

A complete line of automatic and semi-automatic compound applying machines, high velocity drying ovens, convection dryers and compound pumping and conditioning units. Compound applying machines utilize the DAREX "Flowed-in" Process to apply overall or annular gaskets to can ends, closures, crowns, aerosol mounting cups and industrial parts.

- 6 - 21 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

Crown Sealing Compounds

Flowed-in plastisol type compounds that cure to a resilient, foamed-cellular structure similar to that of cork. Used for all types of bottled beverage closures. Particularly effective for sealing the new, easy-open bottle caps and crowns.

- 6 - 10 - 13 - 19 - 21 - 27 - 28 - 33
- ▲ 42 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

Industrial Gasketing Compounds

Solvent base, waterbase or plastisol compounds that heat-cure to solid or cellular rubber gaskets which become an integral part of the product and cannot be shaken loose. Used wherever gaskets are required to cushion, contain pressure or form a hermetic seal (automotive fasteners, oil and air filters, knock-out plugs, shock absorbers, electronic components, ammunition, etc.).

Jar Cap and Lid Gasketing Compounds

Flowed-in compounds (solvent base or latex type) which are dried or oven-cured to form self-bonding, resilient gaskets. Used for hermetic sealing of non-processed (low temperature) packs, can be vulcanized for high temperature packs or greater solvent resistance. Plastisol-types also available for certain processed, non-processed and industrial packs.

● 6 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
 ▲ 42 - 52 - 55 - 60 - 64 - 65
 67 - 70 - 73 - 77 - 80 - 88

Lacquers (Pillney)

Container and closure lacquers including gold and drawable lacquers, base coats, finishing, tube and special lacquers, solvents and machine cleaning agents.

● 15
 ▲ 52 - 55 - 60 - 62 - 64 - 65
 67 - 70 - 77 - 80 - 88

Organic Solders

Thermoplastic organic cements for sealing side seams of non-processed food and general line cans as a replacement for metallic solder. Allows lithography to cover the can surface in an uninterrupted pattern.

Pail and Drum Sealing Compounds

For end seams of industrial pails and drums; flowed-in waterbase or solvent base compounds that dry or cure into solid rubbery seals. For removable covers; flowed-in waterbase compounds that dry or cure into foamed microcellular gaskets.

Soldering Crystals

Used by can manufacturers to clean solder rolls on automatic can body makers.

● 6 - 10 - 13 - 19 - 21 - 24 - 27 - 28 - 33
 ▲ 42 - 52 - 55 - 60 - 64 - 65
 67 - 70 - 73 - 78 - 80 - 88

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers.

▲ 42 - 52 - 55 - 60 - 64 - 65
 67 - 70 - 73 - 77 - 80 - 88

CONVERTED PLASTICS**Polypropylene Monofilaments**

Single denier from 50-250. Limited denier in flat cross-section.

▲ 88

Self Adhesive Films

Decorated films with contact adhesive.

● 20
 ▲ 68

PACKAGING PRODUCTS

SHRINKING BAGS AND CASINGS

CRYOVAC "L" for packaging turkeys, whole chickens and ducks.

CRYOVAC "S" bags for packaging smoked, cured, and processed meats, cheese, poultry, and fresh red meat.

CRYOVAC "S" casings for packaging smoked, cured, and processed meats.

- 6 - 10 - 13 - 18 - 24 - 27 - 29 - 34
- ▲ 42 - 44 - 45 - 47 - 52 - 55 - 60 - 64 - 65 - 67
- 70 - 72 - 73 - 75 - 77 - 78 - 80 - 86 - 89

SHRINKING FILMS

CRYOVAC "D" for packaging toys, phonograph albums, specialties, meats and bakery items.

- 10
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

CRYOVAC "S" (Polyvinylidene Chloride) for packaging meat and cheese.

- 6 - 10 - 13 - 18 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

CRYOVAC "L" (Polyethylene) for packaging whole poultry, fruits, vegetables, and bakery items.

CRYOVAC "XL" (Polyethylene) for packaging consumer portions of fresh meat and fish.

- 10 - 13 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

CRYOVAC "Y" (Polypropylene) for packaging phonograph albums, toys and general box overwrap. Also CRYOVAC YH, a perforated film for produce — both shrink and non-shrink applications.

- 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

"VPM" (Polyvinyl Chloride) for produce packaging and multiple product packaging, such as bundling of cans and containers.

- 13 - 28 - 34
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

Carded Packaging

Polycard carded packaging system including blister packaging.

- 6 - 10 - 13 - 34
- ▲ 42 - 53 - 60 - 69

NON-SHRINKING FILM

Converted Bags

Bags converted from polyethylene, cellophane and polypropylene films.

- 1 - 2 - 4 - 5
- ▲ 38 - 39 - 40 - 41

"V" (Polyvinyl Chloride) for box overwrapping.

- 6 - 13 - 18 - 28 - 34
- ▲ 52 - 55 - 60

Polyethylene Products

Products include heavy duty bags, pouches, tubing and film used in the food packaging industry and in other industrial applications.

- 29
- ▲ 81

LAMINATES

Various constructions in pouch or roll-stock form for vacuum packaging cheese and processed meats and other formfill seal applications.

- 6 - 10 - 13 - 18 - 29
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60
- 64 - 65 - 67 - 70 - 72 - 73 - 75 - 77
- 81 - 86 - 89

NET BAGS COTTON (PERMAC)

Strong, cotton net bags in several bright colors for produce packaging that invites customer attention.

- 34
- ▲ 89

POUCHES

For packaging processed meats, for "boil-in-bag" applications, and for cheese.

- 6 - 10 - 13 - 18 - 24 - 29
- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 72 - 73 - 77 - 80 - 86 - 89

RIGID CONTAINERS

Rigid containers such as cosmetic boxes; vacuum-formed industrial products, plastic lighting panels, plastic trays for food items, and formed products for the automotive and television industry; made from cellulose acetate, PVC sheeting and acrylic resins.

- 9
- ▲ 50

EQUIPMENT

For customized packaging lines: automatic, semi-automatic and hand operated equipment for edge sealing and vacuum sealing; shrink tunnels and clip applicators.

- ▲ 42 - 44 - 45 - 46 - 47 - 52 - 55 - 60 - 64
- 67 - 70 - 72 - 73 - 77 - 81 - 86 - 89

SPECIALTY CHEMICALS

CHEMICAL INTERMEDIATES

Chelating Agents

Chemical compounds used to neutralize the undesirable effects of hard water metallic impurities in textile processing, soap and detergent manufacture and other chemical processes and as a scale formation preventative in industrial uses of water. Also used in stabilizing rubber latices, as a fertilizer additive and in a wide variety of specialty applications. Available in liquid form in drums and tank trucks and tank cars, in powder form in 50-pound multiwall bags or, upon request, in 125- or 200-pound fiber drums.

Includes EDTA (ethylenediaminetetraacetic acid), NTA (nitrilotriacetic acid) and other amino acid chelates.

- 31 - 32
- ▲ 84 - 88

DAREX Copolymer Resins

Styrene butadiene copolymer resins marketed in granular form, used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required, such as in manufacturing shoe soles and floor tiles.

- 19
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64
- 65 - 67 - 70 - 73 - 77 - 80 - 89

DAXAD Dispersing Agents

Effective dispersants designed to produce stable dispersions in water of finely divided insoluble particles. Used in emulsion polymerization processes, tanning and in other industries.

- 10 - 19
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

Gas Absorbents

A mixture of hydrated lime, sodium hydroxide and potassium hydroxide, of controlled moisture content, processed into porous, coral-like granules. Used in anesthesia machines to remove carbon dioxide from recycling anesthesia systems, in metabolators, and in oxygen therapy. Also used in gas purification systems, protective masks and other safety equipment; in industrial processes; and in research for acid gas absorption.

- 6 - 10
- ▲ 42 - 43 - 46 - 52 - 55 - 60 - 64 - 65
- 67 - 70 - 73 - 77 - 80 - 89

Industrial Catalysts

RANEY nickel catalysts and metal alloy powders; catalysts for alkylation, dehydrogenation, hydrogenation, oxidation, polymerization, dehydration and other reactions. Custom-made catalysts utilizing as active agents all base- or precious-metal salts.

- ▲ 52 - 61 - 67 - 80 - 90

Molecular Sieves

Physical forms of sodium and calcium aluminosilicates offering unique desiccant and selective separation properties.

- ▲ 52 - 61 - 67 - 80 - 90

Mullite Pellets

Chemically inert, thermally fused spheres of combined alumina and silica used to support catalyst beds, to assist in uniform distribution of reactant flow and to serve as a diluent for a catalyst.

- ▲ 52 - 61 - 67 - 80 - 90

Packaging Desiccants

A number of adsorbents in small bag sizes for military application, electrical and electronic devices, precision instruments and pharmaceutical products.

- 14 - 21 - 34
- ▲ 52 - 61 - 67 - 80 - 90

Silica Gel

An amorphous, extremely porous form of silica having the appearance of clear rock salt. Used as a selective adsorbent for gases and liquids and as a desiccant for dehydration of various substances.

- 14 - 21 - 34
- ▲ 52 - 61 - 65 - 67 - 69 - 80 - 90

SYLOID Micron-Sized Silicas

White, amorphous, silica gel powders used for flatting and anti-blocking of industrial paints, lacquers, plastic sheeting and film. Also used for specialty and reproduction paper coatings; moisture protection of metallic paints; anti-caking agents for foods, feeds and pharmaceuticals.

- 14 - 21 - 34
- ▲ 52 - 61 - 65 - 67 - 69 - 80 - 90

INDUSTRIAL-INSTITUTIONAL CLEANING COMPOUNDS

Dishwashing and Kitchen Sanitation

A wide selection of machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of specialty products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

Floor Treatment Materials for Institutions and Industry

Floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces.

Food Manufacturing - Processing

Specialized processing and maintenance products for use throughout all phases of food processing.

Liquid soaps for surgical, antiseptic, germicidal, disin-

fectant and deodorant requirements; skin creams for hand protection.

Metal-Working and Other Industrial Manufacturing

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper mill production cleaning, rubber processing anti-adhesives, and production cleaning for rubber manufacturing plants.

Transportation

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, and marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

● 10 - 16 - 18 - 23 - 31 - 37

▲ 53 - 55 - 63 - 67 - 71 - 72 - 84 - 92

PRINTING PRODUCTS

Offset Printing Blankets

A two-piece blanket, with a unique replaceable face of compressible polymer-fiber material surfaced with flexible rubber. Used on commercial web and sheet-fed offset presses and duplicators to transfer printed images from the impression cylinder to the paper stock.

▲ 42 - 55 - 60 - 70 - 77 - 80 - 89

Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fiber-based fabrics.

▲ 42 - 52 - 56 - 60 - 67 - 70
73 - 77 - 80 - 89

Textile Printing Blankets

Roller Printing Blankets: wide fabric-and-rubber laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide fabric-and-rubber laminated continuous smooth-surfaced belts.

Lapping Blankets: wide continuous rubber belts faced on both sides with wool and cotton fabric to cushion high roll pressures exerted during printing operations.

All blankets available in widths and lengths to customer specification.

▲ 42 - 52 - 55 - 56 - 60 - 64 - 65
67 - 70 - 73 - 77 - 80 - 89

WATER TREATMENT CHEMICALS

Biocides

Products to control bacterial slimes, molds and algae in industrial cooling water systems.

Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

Cooling Water Treatments

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

Return Line Treatments

Products designed to protect condensate return systems from corrosive attack by use of filming and neutralizing amines.

Miscellaneous Products

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

▲ 55 - 67

TAPE AND BACKINGS

Specialty Backings

Latex-saturated paper backings for pressure sensitive tapes, waterproof sandpapers and release liners. Available with barrier coats, release coats, bonding coats, singly or in combination.

● 18

▲ 52 - 55 - 56 - 57 - 75 - 73 - 77 - 78 - 80 - 89

Tapes

Reinforced strapping tapes, pressure sensitive masking tapes, cellophane tapes, electrical tapes, protective tapes and tape dispensers.

● 29

▲ 59 - 63

METEOROLOGICAL BALLOONS

Balloons

Neoprene latex, one-piece balloons. Primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packed to specification.

▲ 42 - 52 - 55 - 56 - 57 - 73 - 77 - 80 - 89

For a complete listing refer to page 64, Dewey and Army Chemical Division.

PHARMACEUTICALS

Tranquilizers, coccidiostats and other special pharmaceuticals for sale to bulk formulators.

● 31 - 32

▲ 84 - 88

GRACE**NUCLEAR FUEL SERVICES, INC.**

Manufactures nuclear feed materials; reprocesses and transports spent nuclear fuels.

General Office

906 Wheaton Plaza Office Bldg.
Wheaton, Maryland 20902
(301) 933-5440

● Plants

1 NEW YORK, West Valley
(14171)
P. O. Box 124
(716) 942-3235

2 TENNESSEE, Erwin (37650)
P. O. Box 218
(615) 742-1721

▲ Sales Offices

3 DISTRICT OF COLUMBIA
(Wheaton, Maryland) (20902)
906 Wheaton Plaza Office Bldg.
(301) 933-5440

4 NEW YORK, West Valley
(14171)
P. O. Box 124
(716) 942-3235

5 TENNESSEE, Erwin (37650)
P. O. Box 218
(615) 742-1721

PRODUCTS**Nuclear Fuel Reprocessing / Transportation Services**

Capability for reprocessing a variety of spent nuclear fuels, waste burial and fuel transportation. Reprocessing performed at West Valley, N. Y.

● 1 - 2
▲ 3 - 4 - 5

Nuclear Materials

More than fifty uranium, plutonium and thorium products for nuclear and non-nuclear applications. Used primarily as fuel material for nuclear reactors. Also capacity for unirradiated scrap recovery at Erwin, Tenn. (Detailed list on p. 20.)

● 1 - 2
▲ 3 - 4 - 5

Specialty Products Group

GRACE

DuBOIS CHEMICALS DIVISION

Manufactures and markets a wide variety of chemical cleaning compounds for industrial, institutional, transportation and food processing applications.

Headquarters Office

634 Broadway
Cincinnati, Ohio 45202
(513) 421-5100

● Plants

UNITED STATES

1 CALIFORNIA, City of Industry
(Los Angeles) (91746)
Don Julian Rd. & 9th Ave.
(213) 330-3351

2 NEW JERSEY, East Rutherford
(07073)
Union Ave. and DuBois Street
(201) 933-2300

3 OHIO, Cincinnati (45202)
1120 West Front Street
(Chemicals)
(513) 420-5100

4 OHIO, Cincinnati (45217)
5129 Kieley Ave. (Equipment)
(513) 421-5100

5 TEXAS, Dallas (75216)
8770 South Central Expressway
(214) 376-6491

CANADA

6 ONTARIO, Weston (Toronto)
64 Kenhar Drive
P.O. Box 68
(416) 749-0720

▲ Sales Offices

UNITED STATES

7 ALABAMA, Birmingham
(35201)
2 Findley Ave., West
(205) 251-0247

8 CALIFORNIA, City of Industry
(Los Angeles) (91746)
Don Julian Rd. & 9th Ave.
(213) 330-3351

9 CALIFORNIA, San Francisco
(94107)
1445 Illinois
(415) 648-4383

10 COLORADO, Denver (80217)
2500 West 5th Ave.
(303) 623-3221

11 CONNECTICUT, West
Hartford (06107)
124 LaSalle Road
(203) 233-5241

12 DISTRICT OF COLUMBIA,
Washington (20018)
910 Brentwood Rd., NE
(202) 529-2535

13 DISTRICT OF COLUMBIA,
Washington (20036)
Coal Building
1130 - 17th Street, N.W.
(202) 296-4417

14 FLORIDA, Miami (33147)
1350 NW 74th Street
(305) 754-7297

15 GEORGIA, Atlanta (30312)
550 Glenn Street, SW
(404) PL 3-2149

16 ILLINOIS, Chicago (60654)
Merchandise Mart Plaza
(312) 527-5700

17 KENTUCKY, Covington (41011)
29 East Second Street
(606) 261-4541

18 LOUISIANA, New Orleans
(70117)
2800 Chartres Ave.
(504) 947-3330

19 MARYLAND, Baltimore
(21218)
2510 St. Paul Street
(301) 243-0400

20 MASSACHUSETTS, Boston
(Wellesley) (02181)
204 Worcester Street
(617) 235-8484

21 MICHIGAN, Detroit (48207)
1900 East Jefferson
(313) 567-2800

22 MINNESOTA, Minneapolis
(55401)
334 North First Street
(612) 333-1281

23 MINNESOTA, Minneapolis
(55416)
5700 West 36th Street
(612) 929-1002

24 MISSOURI, Kansas City
(64116)
127 West 10th Ave.
(816) 421-4327

25 MISSOURI, St. Louis (63116)
3660 Gravois Ave.
(314) 664-5244

26 NEW JERSEY, East Rutherford
(07073)
Union Ave. & DuBois Street
(201) 933-2300

27 NEW YORK, Buffalo
(Cheektowaga) (14240)
2769 Broadway
(716) 896-3396

28 NEW YORK, New York
(orders)
(212) 925-3901

29 NORTH CAROLINA,
Greensboro (27420)
801 Warehouse Street
(919) 273-3465

30 OHIO, Cleveland (44113)
1300 West 9th Street
(216) 781-6406

31 PENNSYLVANIA,
Philadelphia (19142)
2030 South 62nd Street
(215) 563-3943

32 PENNSYLVANIA,
Pittsburgh (15233)
3125 Preble Avenue
(412) 261-4000

▲ Sales Offices (continued)

33 TENNESSEE, Memphis
(38117)
4730 Popular Street
(901) 682-3400

34 TEXAS, Dallas (75201)
1605 Gold Carpet Street
LTV Towers Building
(214) 748-9531

35 TEXAS, Houston (77006)
Suite 248-DeGeorge Bldg.
3520 Montrose Blvd.
(713) 644-3296

36 TEXAS, Houston (77001)
800 Burnett
(713) 227-8803

37 WASHINGTON, Seattle
(98134)
3623 6th Ave., South
(206) 822-5533

38 WISCONSIN, Milwaukee
(53204)
531 South Water Street
(414) 276-3512

CANADA

39 ONTARIO, Weston (Toronto)
64 Kenhar Drive
P. O. Box 68
(416) 749-0720

40 QUEBEC, Montreal
8535 DelMeade Road
738-4713

PRODUCTS

DISHWASHING AND KITCHEN SANITATION

Machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of special products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

Pre-Soaking

Powders for cleaning silverware and stainless steel, plastic and china surfaces.

Machine Ware Washing

A wide selection of powders and liquids for use in all water conditions, for all types of ware in automatic or semiautomatic operations.

Dispensing and Control Systems

Electronic systems for automatic and semiautomatic compound dispensing.

Rinsing

Liquid rinse-dry agents and dispensing system for fast, spot-free drying.

Manual Dishwashing

A variety of detergents specially designed for varying water conditions and soil loads, with a faucet dispensing system.

Pot and Pan Washing

Compounds for pot and pan washing—both machine and manual.

Kitchen Housekeeping

Complete line of products for equipment maintenance and for cleaning walls, floors and other items.

● 1 through 6
▲ 7 through 40

FLOOR TREATMENT MATERIALS FOR INSTITUTIONS AND INDUSTRY

A complete line of floor treatment products to clean, polish and preserve tile, asphalt, concrete, terrazzo and other resilient floor surfaces. Carpet shampoos.

Cleaning

A family of compounds for wax stripping and cleaning all types of floors.

Sanitizing

Liquid germicidal disinfectants.

Sealing

Multi-purpose, fast-drying floor sealers.

Waxing and Finishing

A variety of self-polishing waxes and finishes.

● 1 through 6
▲ 7 through 40

FOOD MANUFACTURING - PROCESSING

Specialized processing and maintenance products for use throughout all phases of food processing.

Baking Industry

Production cleaning and plant maintenance products and dispensing equipment for pans, doughnut fryers, ovens, racks, utensils and other production equipment. Cleaners for floors and walls throughout the bakery.

Beverage and Brewing Industries

Chain conveyor lubricants and automatic dispensing equipment for single and multi-unit bottle lines; wide range of synthetic lubricants for all water and plant conditions. Production cleaning and plant maintenance products for use throughout the brewery: tanks, wort coolers, hoses and lines, filters, pasteurizers, kegs, labelers, etc. Plant maintenance products for all phases of soft drink manufacturing.

Canning and Frozen Food Industry

Compounds for washing and peeling fruits and vegetables. Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, pasteurizers, heaters, vacuum pans, peeling and husking machinery, flumes, dehydrating equipment, blenders, filling and sealing equipment, glass containers. Cleaners and bacteria control agents for floors and walls throughout the canning and frozen food processing plant.

Dairy Industry

Production cleaning and plant maintenance products and dispensing equipment for chain conveyors, bottles, cans, hot and cold lines and other equipment. Also, sanitizing products and cleaners for floors and walls throughout the dairy.

Meat Processing Industry

Production cleaning and plant maintenance products and dispensing equipment for smoke houses, hot soaker tanks, spray washers, molds, hooks and trolleys.

Potato Chip Industry

Production cleaning and plant maintenance products and dispensing equipment for chip fryers, peelers, slicers, washers, conveyors and cans. Cleaners for floors and walls throughout the potato chip processing plant.

Poultry Processing Industry

Production equipment, plant maintenance products, and dispensers for scald tanks, pickers, pan chillers, cookers, washers, scalders, singers, eviscerating troughs, vacuum units. Specialized products for sanitizing and for mineral and protein film removal. Cleaners for floors and walls throughout the poultry processing plant.

● 1 through 6

▲ 7 through 40

METAL-WORKING AND OTHER INDUSTRIAL MANUFACTURING

Products for paint spray booth maintenance, paint stripping, metal cleaning prior to finishing, paper-mill production cleaning, rubber processing anti-adhesives and production cleaning for rubber manufacturing plants.

Dispensing and Control Equipment

For spraying cleaning solutions; for cleaning tank interiors; for concentration control, automatic proportioning and automatic feeding.

Cleaning

Compounds for steam cleaning, heated spray washing, heated and cold immersion tank cleaning and manual cleaning of industrial parts and equipment.

Cleaning Prior to Electroplating

Products for electrolytic cleaning and heated immersion soak cleaning of a variety of metal parts.

Phosphatizing

A family of compounds for manual iron phosphatizing and for spray and immersion phosphatizing of zinc and iron parts.

Rust Inhibiting

Compounds for use in spray washers, immersion tanks and manual operations.

Etchants for Aluminum

Compounds for etching in spray washers or immersion tanks and for brightening after etching.

Barrel Finishing

A powdered compound for burnishing and brightening.

Paint Spray Booth Maintenance

Products for conditioning water, for purging and for masking and stripping dry areas.

Paint Stripping

A variety of products for hot and cold immersion stripping, cold spray or brush stripping and for steam injection and steam machine work.

Industrial Housekeeping

Compounds for a variety of housekeeping jobs including cleaning electric motors, manual cleaning of machinery and equipment, purging phosphate stages of spray washers or tanks, descaling rinse stages of spray washers or tanks, removing scale from shower room walls and cleaning rest-room fixtures.

Paper Mill Products

A completely automated felt cleaning system for metering alkaline and/or acid cleaners onto felts during paper processing operations; cleaners for all felt problems and cleaning products for equipment maintenance throughout the processing plant.

Petroleum Refinery and Petrochemical Plant Cleaning

Plant maintenance cleaners for emulsion, floor and steam cleaning; process equipment cleaning for columns and towers, heat exchangers, water jackets on compressors and pumps, air coolers; storage tank interior and exterior cleaning; equipment for dispensing cleaners and controlling compound use.

Rubber Processing

Anti-adhesives, lubricants, separants, alab and sheet dips, mold cleaners, steam cleaners, rubber bonding agents.

Water Treatment Chemicals

A wide line of scale and corrosion control products for boilers, cooling systems and towers.

Cutting Fluids

A full line of water soluble cutting and grinding fluids for use by the metal-working industry.

TRANSPORTATION

A wide selection of cleaning and maintenance products for fleets, railroads, airlines, marine and bus lines; cleaning compounds and dispensing equipment for automatic car wash operations.

Vehicle Washing

Complete line of cleaning compounds for steam cleaning, wheel washing, power washing, brush washing in car wash systems; medium and heavy duty exterior cleaners for manual washing.

Steam Cleaning

Powders and liquids for steam cleaning of vehicles and parts, designed for light to heavy soil loads.

Immersion Tank Cleaning

For heated and cold immersion tank cleaning of aluminum, steel, ferrous and non-ferrous metals, as well as internal combustion engine parts.

Solvents

Products for dissolving oil, grease and shop soils and for cleaning electrical motors and equipment.

Greases and Oils

A complete line of polymer viscoelastic lubricants for automotive maintenance.

● 1 through 6

▲ 7 through 40

Paint Spray Booth Maintenance

Products for masking, purging, water conditioning, dry and water wash booths.

Paint Stripping

Liquids and powders for use in all types of operations: heated immersion, cold immersion, cold spray, brush stripping and steam cleaning.

Dispensing and Control Equipment

Systems for automatic feeding and proportioning of solutions; equipment for cleaning over-the-road tank interiors.

Housekeeping

Products for manual cleaning of machinery and equipment, for descaling, for purging phosphate and for many specialized housekeeping problems.

● 1 through 6

▲ 7 through 40

Specialty Products Group

GRACE

DEARBORN CHEMICAL DIVISION

*Manufactures and markets industrial water treatment chemicals,
industrial waste water treatment chemicals and services,
maintenance and production coatings, pipeline coatings, wrappers
and transportation cleaners.*

General Office

475 Merchandise Mart Plaza
Chicago, Illinois 60654
(312) 527-5700

● Plants

UNITED STATES

- 1 ILLINOIS, Lake Zurich (60047)
320 Genesee Street
(312) 438-8241
- 2 MASSACHUSETTS, Boston
(02136)
50 Business Street
Hyde Park
(617) EM 1-2131

CANADA

- 3 ONTARIO, Toronto (9)
2454-2464 Dundas Street West
(416) 534-3546

ARGENTINA

- 4 Dearborn Chemical International
Corp.
Balcarce 610
Buenos Aires
Tel. 33-1641

MEXICO

- 5 Productos Dearborn de Mexico
Plaza De Buenavista No. 2
Desp. 406
Mexico City
Tel. 35-55-42

▲ Sales Offices

UNITED STATES

- 6 CALIFORNIA, Santa Clara
(95051)
(San Francisco)
3238 McKinley Drive
(408) 246-3727
- 7 GEORGIA, Atlanta (30305)
3133 Maple Drive, N.E.
(404) 261-8933
- 8 HAWAII, Honolulu (96814)
510 Piikoi Street
Tel. 964-941
- 9 ILLINOIS, Chicago (60654)
475 Merchandise Mart Plaza
(312) 527-5700
- 10 ILLINOIS, Des Plaines (60016)
15 North Broadway
(312) 827-6102
- 11 MICHIGAN, Grosse Pointe
Woods (48236)
20039 Mack Avenue
(313) 886-4710
- 12 MISSOURI, La Due (63124)
(St. Louis)
9216 Clayton Road
(314) 991-2017
- 13 NEBRASKA, Omaha (68114)
Swanson Building
8401 Dodge Street
(402) 391-7659
- 14 NEW JERSEY, Linden (07036)
1601 Linden Avenue East
P.O. Box 213
(201) WA 5-1435
- 15 OHIO, Cleveland (44116)
Westview Towers
21010 Center Ridge Road
(216) 333-4455
- 16 PENNSYLVANIA,
Fort Washington
(Philadelphia) (19034)
520 Pennsylvania Avenue
(215) MI 6-8815
- 17 TEXAS, Richardson (Dallas)
(75080)
Central Exchange Bldg.
777 S. Central Expressway
(214) AD 5-4595

CANADA

- 18 ALBERTA, Calgary
2525 - 4th Avenue, N.W.
(403) 283-1856
- 19 ONTARIO, Toronto (9)
2454-2464 Dundas Street West
(416) 534-3546
- 20 QUEBEC, Montreal (28)
3333 Cavendish Boulevard
(514) 481-5641

ARGENTINA

- 21 Dearborn Chemical International
Corp.
Balcarce 610
Buenos Aires
Tel. 33-1641

MEXICO

- 22 Productos Dearborn de Mexico
Plaza De Buenavista No. 2
Desp. 406
Mexico City
Tel. 35-55-42

PUERTO RICO

- 23 Isla Verde (00913)
WD 35 Los Angeles
Tel. 791-2158

PRODUCTS

WATER TREATMENT

Biocides

Products to control bacterial alimes, molds and algae in industrial cooling water systems.

Boiler Water Treatments

Deposit and corrosion preventives, anti-foams, sludge dispersants, oxygen scavengers and allied materials.

Cooling Water Treatments

Products to prevent fouling, pitting, deposits and general corrosion in recirculating and once-through cooling water systems.

Return Line Treatments

Products designed to protect condensate return systems from corrosive attack by the use of filming and neutralizing amines.

Miscellaneous Products

Scale and deposit removers for boilers and heat exchanger equipment.

Fuel additives and combustion catalysts for residual fuel oils and coal.

● 1 - 3 - 4 - 5
▲ 6 through 23

PROTECTIVE COATINGS

Cleaners

Products for cleaning locomotive equipment and railroad passenger cars.

Maintenance Coatings

Products which provide corrosion protection for industrial equipment and structures including heat-resistant coatings.

Pipeline Coatings

Products based on epoxies and microcrystalline wax for pipeline protection, both internal and external.

Pipeline Wrappers

Custom fabrications including polyester film, fabric or asbestos impregnated and laminated with waxes and asphalts; for use in combination with DEARBORN Pipeline Coatings.

Production Coatings

For in-plant and shelf storage protection of metal parts and assemblies in the metal working industries.

● 1 - 2 - 3
▲ 6 through 20 - 23

INDUSTRIAL WASTE WATER TREATMENT

Analytical Services

Analysis of waste water to define pollution problems and monitor efficiency of waste treatment systems.

Coagulant Aids

Products to settle solids and improve waste water quality.

Consulting Services

Assistance to industry in the development of water pollution control programs.

Oil Emulsion Breakers

Products to separate emulsified oils from waste water.

● 1 - 3
▲ 6 through 20

Specialty Products Group



VESTAL LABORATORIES DIVISION

Manufactures and markets products for skin antisepsis and for environmental sanitation in hospitals, institutions, industry and agriculture; building maintenance cleaners, polishes, floor sealers and floor machines.

General Office

4963 Manchester Avenue
St. Louis, Missouri 63110
(314) 535-1810

● Plant

1 MISSOURI, St. Louis (63110)
4963 Manchester Avenue
(314) 535-1810

4 DISTRICT OF COLUMBIA,
Washington (20002)
50 Florida Ave., N.E.
(202) 462-0682

8 NEW JERSEY, Jersey City
(07306)
921 Bergen Ave.
(201) 656-9034

▲ Sales Offices

2 CALIFORNIA, Los Angeles
(90022)
2119 S. Atlantic Blvd.
(213) 268-1351

5 ILLINOIS, Chicago (60612)
2016 West Carroll
(312) 829-4756

9 TEXAS, Ft. Worth (76101)
P.O. Box 1599
(817) 923-5722

3 CALIFORNIA, Burlingame
(94010)
1299 Bayshore Highway
(415) 344-5747

6 MICHIGAN, Detroit (48219)
20305 West 7 Mile Road
(313) 534-4334

7 MISSOURI, St. Louis (63110)
4963 Manchester Ave.
(314) 535-1810

PRODUCTS

Agricultural Products

For use in disinfection and cleaning of animal and poultry quarters, veterinary hospitals, zoos and animal research laboratories.

Health Industries Products

Antiseptic detergents for surgical scrubs and skin cleaning in hospitals, nursing homes and physicians' and dentists' offices.

Germicides and germicidal detergents for use in disinfecting and cleaning all areas in health institutions.

Creams for protecting and disinfecting the skin and for the control of dermatitis.

Surgical soap dispensers – foot operated, wall mount and portable units.

Industrial and Institutional Building Maintenance Products

Concentrated liquid cleaners for general purpose cleaning of floors, walls and fine surfaces.

Concentrated liquid sanitizing shampoo for carpets and rugs.

Floor finishes, polishes and sealers for all types of floors.

Cleaning equipment including floor machines and accessories.

Rug and carpet cleaning equipment including vacuum and shampoo machine.

- 1
- ▲ 2 through 9

THE VERATEX CORPORATION

Manufactures and distributes disposable paper and plastic products for physician and dentist office use.

Plant and Sales Office

18610 Fitzpatrick
Detroit, Michigan 48228
(313) 838-0942

PRODUCTS**Absorbent Dental Rolls**

Made from surgical cotton.

Dental Mercury

Refined for dental use.

Dental Tray Covers

Made from disposable paper.

Disposable Aprons

Embossed lightweight plastic in two styles. Completely impervious to liquids.

Disposable Cups

Plastic and paper cups for hot and cold liquids. Treated and untreated.

Draping Sheets

Absorbent, warm, strong, soft, with embossed texture. Also available with plastic film laminate for positive waterproofing.

Examination Gowns

Full length and waist length in embossed tissue.

Examination Table Paper Rolls

Water repellent, soft and strong.

Hand Towels

High wet-strength absorbent towels in dispenser box.

Plastic Examination Gloves

Clear plastic, individually folded examination gloves.

Professional Towels

For use as patient bibs; both paper and plastic-lined.

*Engages in chemical manufacturing, food processing,
paper manufacturing and converting, agriculture, mining and trading.*

Headquarters Office

7 Hanover Square
New York, New York 10006
(212) 344-1200

● Plants

ARGENTINA

- 1 Darex S. A. I. y C.
Primera Junta 550, Quilmes
F. C. N. G. R.
Province of Buenos Aires
Tel. 203-0880
- 2 Teroson Argentina S.R.L.
Avenida Velez Sarsfield 5700
Munro, Provincia
de Buenos Aires
Tel. 740-9081

BOLIVIA

- 3 Avicaya Ltda.
Avicaya Lode (Mine)
- 4 Cia. Molinera Boliviana S. A.
Calle Calama No. 42
Casilla 495
Cochabamba
Tel. 4701
- 5 Cia. Molinera Boliviana S. A.
Avenida Vasquez
Casilla 852
La Paz
Tel. 29841
- 6 Estalsa, S.A.
Avicaya Placer (Mine)
- 7 International Mining Co.
Chojlla (Mine)
- 8 International Mining Co.
Tanapaca (Mine)
- 9 Sociedad Boliviana de
Cemento S. A.
Casilla 557
Viacha
Tel. 23615

BRAZIL

- 10 Eriez Produtos Magnéticos e
Metalúrgicos Ltda.
Rua Othao S/N°
Vila Leopoldina-Alto da Lapa
São Paulo
Tel. 32-8188

- 11 Plastar S.A.
Comercia e Industria de
Materias e Produtos Plásticos
Rua Manoel Preto 1401
Caixa Postal 12603
São Paulo
Tel. 61-1106
- 12 Produtos Químicos "Darex,"
Limitada
Avenida Mofarrej No 619
Vila Leopoldina-Alto da Lapa
São Paulo
Tel. 5-0005
- 13 Vulcan Material Plastico S. A.
Estrada do Colegico, 380
Caixa Postal 4400
Rio de Janeiro, G. B.
Tel. 30-9852
- 14 Vulcan Material Plástico S. A.
Estrada da Capela do Ribeirao
Km. 9
Mogi das Cruzes
São Paulo

CHILE

- 15 Industrias Coia S. A.
Calle 1 Poniente No. 1201
Vina del Mar
Tel. 85181
- 16 Industrias Coia S.A.
Casilla 6-D
Vina del Mar
Tel. 159
- 17 Empresa Pesquera Eperva S. A.
San Marcos 120
Casilla 293
Arica
Tel. 1790
- 18 Empresa Pesquera Eperva S. A.
Serrano 302
Casilla 30-D
Iquique
Tel. 485
- 19 Hucke Hermanos S. A. C.
Yungay 2170
Valparaíso
Tel. 7503

COLOMBIA

- 20 Carboquímica, S.A./Industrias
Permapint S.A.
Kilómetro 9 Carretera a Soacha
Bogotá
Tel. 38 02 45
- 21 Colprotex S.A.
Kilómetro 9 Carretera a Soacha
Bogotá
Tel. 38 02 45
- 22 Comestibles La Rosa S. A.
Carretera Pereira/Santa Rosa
Apartado Aereo 44
Pereira
Tel. 2645
- 23 Conservas California S. A.
Carretera al Aeropuerto
Apartado Aereo 1322
Barranquilla
Tel. 60210
- 24 Ico Pinturas, S. A.
Apartado Aereo 2301
Barranquilla
Tel. 2.02.75
- 25 Productura de Papeles S. A.
(PROPAL)
Apartado Aerco 4412
Cali
Tel. 60125
- 26 Química Proco S.A.
Autopista Sur Km-10
Itagui
Tel. 77 00 44
- 27 Sintéticos S.A.
Calle 31 #44-13
Medellín
Tel. 45 19 00

COSTA RICA

- 28 Pozuelo, S. A.
Casilla 1750
La Uruca, San Jose
Tel. 4160

ECUADOR

- 29 Industria Cartonera Ecuatoriana
S. A.
Apartado #186
Puerto Nuevo, Guayaquil
Tel. 42040

● Plants (continued)

- 30** Pinturas Ecuatorianas S. A.
(PINTEC)
Avenida de las Americas
Apartado 186
Guayaquil
Tel. 22065

GUATEMALA

- 31** Alimentos y Conservas
Ducal, S.A.
Carretera del Atlántico, Km. 7.
Guatemala City
Tel. 880537
- 32** Alimentos Kern de
Guatemala S.A.
Km. 6½ Carretera del Atlántico
880182
P.O. Box 379
Guatemala City
Tel. 880-182

MEXICO

- 33** Cueros Artificiales, S. A. de C. V.
San Francisco 102
Apartado 8803
Mexico 1, D. F.
Tel. 27-10-21
- 34** DuBois Mexicana, S.A. de C.V.
Km. 15½ Carretera
Mexico-Pachuca
Santa Clara
Tel. 69-21-70
- 35** Productos Darex, S. A. de C. V.
Km. 15½ Carretera Mexico—
Laredo
Santa Clara
Tel. 69-21-70

NEWFOUNDLAND (CANADA)

- 36** International Fishery &
Fishmeal Ltd.
P.O. Box 801
Stephenville
Tel. (709) 643-2151

PERU

- 37** Cia. "Arturo Field y La Estrella"
Ltda.
Avenida Venezuela 2450
Lima
Tel. 39-200
- 38** Cartavio S. A.
Hacienda Cartavio
Trujillo
Tel. Cartavio No. 3
- 39** Cia. Pesquera "La Gaviota" S. A.
Km. 65 Panamericana Antigua
Chancay
Tel. 77
- 40** Cia. Pesquera "La Gaviota" S.A.
Carretera Paracas
11th Km.
Pisco, Paracas

- 41** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Avenida Argentina 5447
Lima
Tel. 32703

- 42** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Avenida Francisco Pizarro 926
Rimac
Tel. 76570

- 43** Cias. Unidas Vitarte, Victoria,
Inca S. A.
Vitarte
Tel. 32439

- 44** Envases Sanmarti S. A.
Avenida Panamericana 4001
Surquillo, Lima
Tel. 56512

- 45** Fabrica de Pinturas Vencedor
Avenida Venezuela 1901
Lima
Tel. 37088

- 46** International Machinery Co.
(Peru) S.A.
Avenida Venezuela 1901
Lima
Tel. 75200

- 47** Interquímica S.A. & Sudoba S.A.
Apartado 1259
Lima
Tel. 3-0603

- 48** Minsur Partnership Limited
Estacion Santa Lucia
Via Arequipa

- 49** Sociedad Paramonga Ltda.
Avenida Panamericana 4001
Surquillo, Lima
Tel. 57-902

- 50** Sociedad Paramonga Ltda.
Avenida Venezuela 1891
Lima
Tel. 44-960

- 51** Sociedad Paramonga Ltda.
Hacienda Paramonga
Paramonga
District of Pativilca
Tel. Barranca 2131

- 52** Teroson—Peru
Giron Arequipa 271
Casilla 4847
Lima
Tel. 78128

VENEZUELA

- 53** Plásticos y Derivados C.A.
(PLAYDECA)
Final De La Calle Bolivar
Baruta, Estado Miranda
Tel. 77.20.21

- 54** Plastiflex C.A.
Calle Iribarren Borges
Zona Industrial Sur
Valencia, Edo. Carabobo
Tel. 6969

▲ Sales Offices

ARGENTINA

- 55** Darex S. A. I. y C.
Primera Junta 550
Quilmes F. C. N. G. R.
Provincia de Buenos Aires
Tel. 203-0880
- 56** Teroson Argentina S.R.L.
San Martin 570
Capital Federal
Tel. 32-0945

BOLIVIA

- 57** Estalsa, S.A.
Casilla 852
Calle Mercado #1099
La Paz
Tel. 25312
- 58** Grace y Cia. (Bolivia) S. A.
Calle Mercado #1099
Casilla 852
La Paz
Tel. 25099
- 59** International Machinery Co.
(Bolivia) S. A.
Socabaya 301
Casilla 852
La Paz
Tel. 10972

BRAZIL

- 60** Eriez Produtos Magnéticos e
Metalúrgicos Ltda.
Rua Direita, 250
São Paulo
Tel. 35-4632
- 61** Plastar S.A.
Comercio e Industria de
Materiais e Produtos Plásticos
Rua Manoel Preto 1401
Caixa Postal 12603
São Paulo
Tel. 61-1106
- 62** Produtos Químicos "Darex"
Limitada
Rua Direita, 250
São Paulo
Tel. 35-4632
- 63** Vulcan Material Plastico S. A.
Avenida Rio Branco,
156-20 Andar
Caixa Postal 4400
Rio de Janeiro, G. B.
Tel. 42-6010
- CHILE**
- 64** Grace y Cia. (Chile) S. A.
Morande 341
Casilla 14-D
Santiago
Tel. 1270/1271

▲ SALES OFFICES (continued)

65 Hucke Hermanos S. A. C.
Freire 321
Casilla 53V
Valparaiso
Tel. 7501/7503

COLOMBIA

66 Carboquímica, S.A./Industrias
Permapint S.A.
Calle 14 #15-53
Bogotá
Tel. 43 11 38

67 Colprotex S.A.
Calle 14 #15-53
Bogotá
Tel. 43 11 38

68 Comestibles La Rosa S. A.
Dosquebradas
Apartado Aereo #44
Pereira
Tel. 2645

69 Conservas California S. A.
Apartado Aereo #1322
Barranquilla
Tel. 60210

70 Ico Pinturas, S. A.
Apartado Aereo #2301
Barranquilla
Tel. 2 02 75

71 Productura de Papeles S. A.
(PROPAL)
Apartado Aereo #4412
Cali
Tel. 60125

72 Química Proco S.A.
Apartado Aereo #919
Medellín
Tel. 45 19 00

73 Sintéticos S.A.
Calle 31 #44-13
Medellín
Tel. 45 19 00

COSTA RICA

74 Pozuelo S.A.
Casilla 1750
La Uruca, San Jose
Tel. 4160

ECUADOR

75 Grace y Cia. (Ecuador) S. A.
Comercial
Casilla 186
Guayaquil
Tel. 11240

76 Grace y Cia (Ecuador) S.A.
Comercial
Avenida 10 de Agosto #255
Casilla 281
Quito
Tel. 16290

GUATEMALA

77 Alimentos y Conservas
Ducal, S.A.
Carretera del Atlántico, Km. 7.
Guatemala City
Tel. 88-05-37

78 Alimentos Kern de
Guatemala S.A.
Km. 6½ Carretera de Atlántico
880182
P.O. Box 379
Guatemala City
Tel. 880-182

MEXICO

79 Cueros Artificiales, S. A. de C. V.
San Francisco 102
Apartado 8803
Mexico 1, D. F.
Tel. 27-10-21

80 DuBois Mexicana, S.A. de C.V.
Paseo de la Reforma 510,2° Piso
Mexico 6, D.F.
Tel. 14-00-18

81 Productos Darex, S. A. de C. V.
Leibnitz 34,3 er. Piso
Apartado M-9150
Mexico City
(Sales Agent for Central
America's Dewey and Almy and
CRYOVAC Product Lines)
Tel. 33-24-40

NEWFOUNDLAND (CANADA)

82 International Fishery &
Fishmeal Ltd.
P.O. Box 801
Stephenville
Tel. (709) 643-2151

PERU

83 Grace y Cia. (Peru)
Casilla 2488
Lima
Tel. 75000

84 International Machinery Co.
(Peru) S.A.
Casilla 1843
Lima
Tel. 75200

VENEZUELA

85 Productos Darex S.A.
Edificio "Lex", 4° Piso
Av. Libertador El Rosal
Apartado 5136 Chacao
Caracas
Tel. 33-44-62

86 Plásticos y Derivados C.A.
(PLAYDECA)
Cento Comercial Del Este
Local 28—Salana Grande
Caracas
Tel. 71-91-16

87 Plastiflex C.A.
Ave. Principal de "Los Ruices"
No. 5
Caracas
Tel. 34-55-21

PRODUCTS

AGRICULTURE

Agricultural Emulsifiers

A wide line of surfactants used as agricultural emulsifiers and detergent specialties by other industries.

● 26
▲ 72

Agricultural Solvents

Liquid mixtures of aromatic and aliphatic solvents. Used in insecticide formulation.

● 20
▲ 66

Banana Paste

Fungicide used to prevent deterioration of the banana hand at cut.

● 30
▲ 75 - 76

Cattle Feed

A well-balanced feed for cattle. Sold under the trademark "MOREA".

● 51
▲ 83

Fish Meal

Reduced from anchovy fish meal, containing 65-67% protein, below 10% fats, and 6-10% water. Available in 100-pound and 50-kilo PE-lined multiwall paper bags and in bulk.

- 17 - 18 - 36 - 39 - 40
- ▲ 64 - 82 - 83

Pesticides

A variety of pesticide compounds which include insecticides for the control and eradication of insects and herbicides for the elimination of weeds.

- 26
- ▲ 72 - 75 - 76

FOOD**Baby Food**

Strained canned baby food.

- 31
- ▲ 77

Biscuits

A complete line of biscuits, including wafers, pretzels, sodas and saltines packed in tins. Also assorted fancy biscuits such as Petit Beurre, Custard Cream and Cafe Noir packed in tins or cartons. Biscuits are available in bulk or in small packages for the consumer trade.

- 19 - 22 - 28 - 37
- ▲ 64 - 65 - 68 - 74 - 83

Candies

A variety of kinds such as hard, filled, and panned candies; caramels; compressed tablets; soft and grained marshmallows, gum drops, and novelty items including bubble gum and lollipops.

- 19 - 22 - 28 - 37
- ▲ 64 - 65 - 68 - 74 - 83

Canned Foods

A variety of canned foods, including vegetables, fruit juices, and a line of tomato products.

- 22 - 23 - 31 - 32
- ▲ 68 - 69 - 77 - 78

Cereals

Baby cereals, pancake mixes and cake mixes.

- 22 - 31
- ▲ 68 - 77

Chocolate Confectionery

A wide selection of chocolate candies including filled and solid chocolate bars, bonbons, and chocolate-covered marshmallows.

- 19 - 22 - 37
- ▲ 64 - 65 - 68 - 83

Cocoa Powder

Sold in bulk to other manufacturers and through retail channels as well.

- 19 - 22
- ▲ 64 - 65 - 68 - 83

Cookies

A wide variety of crackers and biscuits, including both fancy and popular-priced assortments.

- 19 - 22 - 28 - 37
- ▲ 65 - 68 - 74 - 83

Edible Oil

Vegetable and animal oils used for food purposes containing not over 0.1% of free fatty acid.

- 15 - 16
- ▲ 64

Flour, Wheat

Milled wheat used in baking.

- 4 - 5
- ▲ 58 - 64

Fruit Concentrates

For beverages, pastries and juices. Concentrations 12° to 35° Brix. Available in 109 fluid ounce/6 cases (#10-cans) and 5-gallon cans. (Guava, pineapple, mango, papaya and tamarind.)

- 22 - 23 - 31 - 32
- ▲ 69 - 71 - 72 - 77 - 79

Fruit Nectars

Rich in pulp and exotic tropical flavors. Available in 6/48-ounce cases and 12/24-ounce cases. (Guava, pineapple, mango, tamarind, apricot, pear, apple and peach.)

- 22 - 23 - 31 - 32
- ▲ 69 - 70 - 71 - 72 - 77 - 79

Gin

An aromatic, alcoholic liquor sold under agreement with Tanqueray Gordon & Co., London, using "Gordon's" as a trademark.

- 51
- ▲ 83

Jams and Marmalades

Complete line of spreads packed in glass jars.

- 22
- ▲ 68

Margarine

A blend of refined, edible oils churned to the consistency of a spread.

- 15 - 16
- ▲ 64

Meat Products

A wide variety of canned and preserved meats such as sausages, frankfurters, deviled ham, bologna, mortadella, etc.

Canned

- 23 - 31
- ▲ 69 - 77

Preserved

- 31
- ▲ 77

Molasses

Blackstrap molasses, the syrupy liquid which is left after all the sucrose has been removed from sugar-cane juice by concentration, crystallization and separation of the sugar crystals. Used in food, feed and in the production of ethyl alcohol. Available in bulk.

- 38
- ▲ 83

Pudding Powders

Standard chocolate and vanilla puddings, as well as fruit dessert gelatins.

- 22
- ▲ 66 - 83

Rum

An alcoholic liquor distilled from fermented molasses and sold under the trademark "Ron Cartavio".

- 38
- ▲ 83

Sauces and Dressings

Mayonnaise, mustard, vinegar and other table sauces packed in glass jars.

- 22
- ▲ 68

Shortening

An edible fat used for cooking.

- 15 - 16
- ▲ 64

Sugar, Raw

Hard, dry crystals which are odorless and soluble in water. Used as sweetening in the manufacture of food products. Available in bulk, and in jute or multiwall paper bags.

- 38 - 51
- ▲ 83

Sugar, Refined

Processed sugar-cane used particularly in the manufacture of food products as a sweetener. Available in cotton or multiwall paper bags.

- 15 - 38 - 51
- ▲ 64 - 83

Tomato Products

Includes catsup, juice, paste and sauce. Available in cases for retail sale.

- 22 - 23 - 31 - 32
- ▲ 69 - 77 - 78

Vodka

A distilled liquor sold under agreement with Heublein, Inc., Connecticut, under the "Smirnoff" trademark.

- 51
- ▲ 83

MINING & METAL PRODUCTS

Copper

A yellowish-red ductile, very malleable and very good electrical conductor used in the metal and electrical industries.

- 48
- ▲ 83

Cutting Bits

Bits containing 50% cobalt for machine tool applications. Available in plastic boxes, six units each.

- 10
- ▲ 80

Dental Alloys

Cobalt-based alloys for dental prosthesis. Packed in 0.5-kilo plastic boxes.

- 10
- ▲ 55 - 58 - 60 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Grinding Aids

Lignin and amine acetate compounds for increasing mill through-put and effecting reduction of pack-set tendencies in portland and hydraulic cements.

- ▲ 55 - 58 - 64 - 72 - 75 - 76 - 83 - 85

Hard Facing Materials

Cobalt special alloy welding rods for hard facing, heat-resistant or abrasion-resistant overlays.

- 10
- ▲ 60

Magnetic Materials

Several permanent magnetic alloys as well as magnetic equipment for separation and other industrial applications. Available in a variety of sizes and shapes packed in wooden boxes.

- 10
- ▲ 60

Resistance Wire

Nickel-chrome alloy wire for electrical resistance applications. Available on spools.

- 10
- ▲ 60

Tin

Silver-white ductile metal used in the metal industry.

- 6 - 7 - 8 - 48
- ▲ 57 - 58 - 83

Tungsten

A hard, brittle, gray metal also known as wolfram. Used in high-speed tools, electric lamps, dental equipment and penpoints.

- 7 - 8
- ▲ 58

PAPER**Board, Paper**

Several kinds of paper board marketed in rolls and reams, in weights ranging from 250 to 450 grams per square meter. The duplex white board is designed for printing, while the duplex-type board finds use in food containers, etc. Gray and straw boards are sold in weights from 350 to 550 grams per square meter in rolls or reams.

- 25 - 51
- ▲ 71 - 83

Bond and Manifold Papers

Primarily white writing paper; also available in colors. Sold in rolls and reams, in weights from 80 to 120 grams per square meter.

- 25 - 51
- ▲ 71 - 75 - 76 - 83

Bristol Board

Two grades of Bristol-type papers (standard and extra), are available in white and in colors, with one or both sides supercalendered. Sold in rolls or reams in weights from 110 to 250 grams per square meter.

- 51
- ▲ 83

Corrugated Cartons

A large variety of boxes in different weights and sizes, made of corrugated board with two-color printing.

Outside liner is available in white or several colors.

- 29 - 50
- ▲ 75 - 76 - 83

Crossbottom Bags

Square bottom kraft grocery bags.

- 50
- ▲ 83

Folding Boxes

Boxes made of folding-type paperboards in a large variety of sizes, shapes and weights. Wax coatings and offset and lithographic printing are available.

- 44 - 49
- ▲ 83

Grocery Kraft Bags

Square bottom and automatic opening grocery bags, covering all the usual sizes and manufactured with kraft paper. Multicolor printing is available.

- 50
- ▲ 83

Kraft Paper

Wrapping, grocery bag and multiwall bag varieties of kraft papers, ranging in weights from 40 grams per square meter to 180 grams per square meter. Available "Clupak"-processed and polyethylene coated, in rolls and reams, both trimmed to specifications.

- 25 - 50 - 51
- ▲ 71 - 75 - 76 - 83

Liners and Corrugating Medium

Outside and inside liners and corrugating medium are available in rolls with weights from 160 to 350 grams per square meter for liners and 160 grams per square meter for corrugating medium.

- 51
- ▲ 83

Multiwall Paper Bags

Straight kraft or "Clupak"-processed multiwall bags for extensibility. Pasted or sewn bottoms, open mouth and valve-type closing, with optional polyethylene coating. Printing (maximum two colors) and sizes to suit customer requirements.

- 50 - 51
- ▲ 83

Sulfite Paper

An extensive variety of wrapping papers, in yellow, blue, green, pink and white. One side is smooth-finished and suitable for printing. Available in rolls and reams, in weights from 28 to 90 grams per square meter.

- 25 - 51
- ▲ 71 - 83

Tape and Specialty Backings

Latex saturated paper backings for pressure sensitive tapes, waterproof sandpaper, release liners, etc. Available with barrier coats, bonding coats, etc.

- ▲ 81 - 85

Tissue Papers

Tissue papers in handkerchief, napkin and bathroom grades in white, yellow, light blue and pink. Marketed in unconverted form.

- 25 - 44 - 49 - 51
- ▲ 70 - 81

Vinyl Coated Paper

A number of paper products used for wallpaper and shoe manufacturing.

- 13 - 27 - 33 - 54
- ▲ 83 - 73 - 79 - 87

CHEMICALS AND OTHER PRODUCTS

Accelerating and Retarding Admixtures

Aqueous solutions and dry compounds for controlling the time required for initial set of concrete and mortar.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Acetate Esters

Butyl, amyl and ethyl acetates used as solvents for lacquers, thinners and artificial leather.

- 38
- ▲ 83

Acetic Acid

Used as an acid, solvent, and reagent in the production of rubber, plastics, pharmaceuticals, dyes, insecticides and in the manufacture of acetate esters.

- 38
- ▲ 83

Adhesive Emulsions

Polyvinyl acetate homopolymer emulsions for adhesives, surface coatings, primer sealers, textile and leather finishes.

- 15 - 16 - 26 - 29
- ▲ 64 - 73 - 75 - 76 - 85

Adhesives

Rubber and neoprene based adhesives used for plastics, paper, metal and some types of wood.

- 2 - 52
- ▲ 56 - 83

Adhesives and Bonding Agents

Resin, latex and polysulfide compounds for masonry patching and resurfacing for plaster bonding and surface bonding of concrete, toppings and aggregates.

- 2 - 26 - 45
- ▲ 55 - 56 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Air Entraining Additives

Saponified tall oil, lignin and low alkali chemicals which produce controlled air entrainment characteristics in portland cement.

- 1
- ▲ 55 - 58 - 64 - 72 - 75 - 76 - 83 - 85

Air Entraining Admixtures - DAREX AEA

Air entraining agent used in concrete for roads, dams and silos.

- 1
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Alkyd Resins

A series of heat resistant resins which retain their initial appearance after long exposure to severe weather. Extensively utilized in the paint industry as protective and decorative coatings.

- 15 - 16 - 26 - 45
- ▲ 64 - 72 - 83

Architectural Paints

A complete line of paints for application to wood, metal and masonry for all-weather protection.

- 24 - 26 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Aromatic Solvents

Several liquid industrial solvents, including benzol 90 (90% benzene minimum), toluol (90% toluene minimum), and xylol (90% xylene minimum). Available in 55-gallon drums or in bulk.

- 20
- ▲ 66

Automotive Lacquers

A finish used to obtain a high gloss; available in a wide range of colors.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Balloons

Neoprene latex, one-piece balloons, primarily for meteorological use. Produced for government weather agencies, government and private research groups and private businesses. Packaged to specification.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Battery Dry Charge Process Equipment

High speed drying equipment for processing separators and plates before placement in dry charge batteries. Manufactured to customer specifications.

- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Battery Separators, ARMORIB and DARAK

Cellulose plates saturated with phenolic resins with plastic ribs for use as electrical insulators in batteries of automobiles, buses and tractors.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Battery Separators, Rubber Plate, DARACEL

Microporous rubber separators for use as electrical insulators in automotive batteries.

- 12
- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Bleaching Powder

Contains 33% active chlorine and is used for textile bleaching. Packed in 100-pound drums.

- 51
- ▲ 83

Bottles

Polyethylene blown molded bottles.

- 27
- ▲ 73

Calcium Chloride

Sold as 34% solution or as 80% solid. Used for road treatment and for refrigeration.

- 51
- ▲ 83

Can Sealing Compounds

Water dispersion of special rubbers for application to ends of cylindrical, rectangular and oval cans by nozzle, die or high-speed nozzle-type liners. Used for meat, fish, fruit, vegetable and general line tin-plate and aluminum containers. Available in 200-liter drums and 20-kilo pails.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Cap and Lid Gasketing Compounds

A number of compounds used in metal caps to seal glass jars containing jams, marmalades, fruit, and vegetables. Includes water dispersions of rubber latex and PVC-based plastisol compounds applied by high speed automatic nozzle liners.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Casings, Food Products

Used for liverwurst and bloodwurst, luncheon meat, ground beef and lard. Sold in linear meters. Characteristics similar to those of CRYOVAC bags and films.

- 12
- ▲ 62 - 85

Catalysts

Catalysts for the petroleum industry.

- 1
- ▲ 55

Caulks and Sealants

Polysulfide, rubber and oil base compounds for weatherproofing of masonry, metal, stone, wood and glass in expansion, curtain wall and other construction joints.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Caustic Soda

The most important commercial caustic. Prepared and sold as a 50% solution. Principle uses are in the paper, edible oil and soap-making industries.

- 51
- ▲ 83

Chlorine

Greenish yellow gas, readily liquifiable, soluble in water and alkalies. Sold as liquid in 150-pound or 2000-pound containers. Used for water purification and textile and pulp bleaching.

- 51
- ▲ 75 - 76 - 83

Coal Tar Enamel

Used to protect underground pipes particularly those carrying petroleum.

- 21
- ▲ 67

Colorants

Finely dispersed pigments and paste for integral mixing in concrete and mortar.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Compound Application and Drying Equipment

Automatic and semi-automatic lining machines used to apply DAREX and DARASEAL compounds; tunnel dryers used to dry sealing compounds; and equipment for the application of side seam cements.

- 1 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Copolymer Resins

Styrene-butadiene copolymer resins marketed in granular form; used to reinforce natural and synthetic rubbers where stiffness, hardness and high abrasion resistance with low specific gravity are required.

- ▲ 62 - 85

Coumarone-Indene Resins

Yellowish solid hydrocarbon resins made from coal tar oils. Used in the rubber and paint industries.

- 20
- ▲ 66

Creosotes

Creosote-wood, a solution of coal tar oil, contains cresols and pyridic bases. Available in 55-gallon drums. Creosote-disinfectant, an emulsion of coal tar oils, contains a minimum of 25% phenols and cresols. Used as an agricultural and veterinary disinfectant.

- 20
- ▲ 66

Crown Sealing Compounds

PVC-based plastisol compound which is spun-lined or molded into metal beverage crowns as a replacement for cork liners.

- 1 - 12 - 35
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Densifiers and Water Repellents

Stearate and modified salt solutions for reduction of capillary absorption in cured concrete and mortar.

- 28
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Detergents, Powdered and Liquid

Industrial, housekeeping and maintenance cleaning products.

- 34
- ▲ 80

Dishwashing and Kitchen Sanitation

Machine and hand dishwashing compounds and dispensing control equipment for all water and soil conditions. Also a wide variety of special products for equipment sanitation and maintenance. For use in restaurants, hotels, hospitals, schools and other institutions.

- 33
- ▲ 76

Dispersing Agents

Organic salt of carboxylated polyelectrolyte and polymerized organic salts of naphthalene sulfonic acid produce stable water dispersions of fine insoluble particles.

- 1
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Drawing Emulsions and Drawing Lubricants

A number of water and alcohol dilutions of castor and white oil, used in sheet metal stamping operations to prevent fracture of lacquer coatings and to reduce wear on dies.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 81 - 83 - 85

Electrical Appliances

Radios, television sets and other home appliances.

- 46
- ▲ 84

Enamels

A complete line of interior and exterior enamels for industrial and domestic use. Applicable by roller, brush or spray and sold in a wide range of colors.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Esters, Dimerginates

Esters of vegetable-oil-derived dimeric acids used for production of resins, polyesters and polyamides.

- 14
- ▲ 63

Ethyl Alcohol

A denatured solvent for industrial use. Available in bulk and smaller containers.

- 15 - 16
- ▲ 64

Exterior/Interior Paints

A wide range of paints used for decorative and protective purposes on metal, wood and masonry.

- 24 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Extruded Products

A number of plastic products including garden hoses and PVC extrusions for the building trade.

- 11 - 27
- ▲ 61 - 73

Fish Oil

Extracted from anchovy, crude grade, below 3% free fatty acid, iodine number 180, Gardner Color 9. Water content below 1%. Available in bulk.

- 17 - 18 - 39 - 40
- ▲ 64 - 83

Flexible Packaging Equipment

Automatic and semi-automatic packaging machines that vacuumize, twist and seal CRYOVAC bags. Tanks and tunnels which utilize hot air or boiling water are available for shrinking CRYOVAC bags or film after the packaging operations.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 81 - 83 - 85

Floor Materials

Products to maintain, protect and repair masonry surfaces, including hardeners, toppings, coloring agents, sealers, anti-corrosion treatment, patching compounds and fabrics, cleaners, conditioners and special grouts for tile, terrazzo and machinery bases.

- 24
- ▲ 70 - 85

Flooring Material

Flooring material based on plasticized PVC. Available in different colors and sizes both in rolls and tiles.

- 13 - 27 - 33 - 53
- ▲ 63 - 73 - 78 - 86

Foam Rubber Latex

Sold in form of molded products such as pillows, mattresses, seats, and as thin foam film, with or without textile backing. Available in a variety of sizes and types.

- 13
- ▲ 63

Formaldehyde

A clear, colorless, aqueous solution 37% formaldehyde by weight. Used in the manufacture of phenolic, melamine and urea resins; in plastics, dyes, leather and paper. Available in drums and bulk.

- 15 - 16 - 26 - 45
- ▲ 64 - 67 - 83

Gas Absorbents

Soda lime with indicator, used as carbon dioxide absorbent in anesthesia and basic metabolism determinations. Also used as acid gas absorbent in submarines and certain diving equipment. Packaged in 55-gallon drums, in 5-gallon pails and in one-kilo cans.

- 1
- ▲ 55 - 58 - 62 - 64 - 75 - 76 - 81 - 83 - 85

Hydrochloric Acid

Clear, colorless or slightly yellow liquid with a pungent odor, soluble in water, alcohol and ether. Technical grade, 32%; used in the metal-working, textile and chemical industries.

- 51
- ▲ 83

Industrial Adhesives

A number of adhesive compounds useful for general purposes and special applications. Includes compounds based on polyvinyl acetate, casein, urea-formaldehyde and phenol formaldehyde. Also rubber adhesives for automotive and industrial uses.

- 2 - 13 - 15 - 16 - 25
- ▲ 55 - 56 - 58 - 62 - 63 - 64 - 72 - 75
- 76 - 83 - 85

Industrial Belts

Laminated PVC-impregnated cloth for use on power transmission products such as conveyors and power belts.

- 27
- ▲ 73

Industrial Salt

Prepared from underground brine deposits and sold as the technical grade material. Main users are the chemical industries and textile and soap manufacturers.

- 51
- ▲ 83

Knitted Fibers, Synthetic

Warp knitted materials from acetate and nylon filament thread used for bonding and lining woolen and cotton fabrics. Used for the manufacture of such apparel items as underwear and sleepwear.

- 41 - 42 - 43
- ▲ 83

Lacquer Fillers

For application in wood finishing. Available in quart and gallon cans.

- 24
- ▲ 70

Laminates, Industrial and Decorative

Laminates consist of several phenolic-impregnated paper layers with melamine resin. Principal uses include desk tops, wall coverings and assorted decorator applications. A new related product line consists of phenolic laminates for use in industrial panel boards and electrical circuit boards.

- 27 - 54
- ▲ 73 - 85 - 87

Latex Paints

A 100% latex paint excellent for interior walls, ceilings or woodwork. Available in quart, gallon, 5- and 55-gallon drums. For large construction operations, latex paints are available in one- or 55-gallon containers with minimum orders of 100 gallons.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 72 - 75 - 76 - 83

Leather Oils

A number of sulfonated oils for leather tanning.

- 26
- ▲ 72

Lithographic Inks

A wide range of inks for the printing industry.

- 30
- ▲ 75 - 76

Maintenance Paints

Paints, lacquers and primers for application to metal, wood and masonry for protective and decorative purposes.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Marine Paints

Anti-fouling paints for application to metal and wooden hulls below the water line. Provides protection against vegetation and marine encrustations. Extra strong weather-resistant paints for decks and the interior and exterior of the superstructure. All marine paints available in quart, gallon, 5- and 55-gallon drums for brush application.

- 24 - 45
- ▲ 64 - 70 - 73 - 83

Melamine Formaldehyde Resins

Synthetic resins of the thermosetting type, made from melamine and formaldehyde. Used for molding compounds and adhesives, particularly in the paper and textile industries.

- 26 - 54
- ▲ 72

Metal Galvanide Primer

Excellent adhesion on all galvanized surfaces. Serves as a base coat and is available in quart, gallon, 5- and 55-gallon drums.

- 24 - 30 - 45
- ▲ 58 - 64 - 70 - 72 - 75 - 76 - 83 - 85

Metal Primers

Red lead primers—suitable for coating bridges, pipelines, and iron and steel structures.

Red oxide primers—for interior and exterior metal surfaces; especially good for weather resistance.

Zinc chromate primers—protect all metal surfaces.

All primers available in quart, gallon, 5- and 55-gallon drums.

- 24 - 30 - 45
- ▲ 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Naphthalene

A coal tar derivative used in the manufacture of other petrochemical derivatives, particularly phthalic anhydride.

- 20
- ▲ 66

Pail and Drum Sealing Compounds

Activated rubber base compounds for use on covers, bottoms and double seams of pails and drums. Available in 200-liter drums, 60- and 85-kilo drums and 20-kilo pails.

- 1 - 12 - 35
- ▲ 55 - 58 - 63 - 65 - 72 - 75 - 76 - 81 - 83 - 85

Paint Emulsions

Vinyl acetate copolymer for emulsions, paints, paper coatings, acoustical tile coating and specialty industrial finishes.

- 15 - 16 - 26 - 45
- ▲ 64 - 73 - 83

Paints

Paints, lacquers and varnishes used specifically for decorative and protective purposes on a variety of products including automobiles, cabinets, woodwork and blackboards.

- 24 - 27 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83

Paraformaldehyde

A white solid, insoluble in alcohol and ether, but soluble in a strong alkali solution. Used in the production of resins and as a disinfectant, fumigant and fungicide.

- 15 - 16 - 26
- ▲ 64 - 72

Phenol Formaldehyde Molding Powders

A group of synthetic molding powders important in the manufacture of buttons, bottle caps, radio cabinets, pot handles and washing machine agitators.

- 26 - 54
- ▲ 72 - 87

Phenol Formaldehyde Resins

A number of synthetic resins used in the manufacture of rubber tires, contact adhesives and paints.

- 26
- ▲ 72

Phthalic Anhydride

Solid, organic dibasic anhydride available in white flake form. Used as raw material for production of alkyd resins, plasticizers and organic intermediates.

- 14 - 20
- ▲ 63 - 65 - 66

Pitch

Solid, brilliant black residue of coal tar distillation. Used in road pavement; as raw material for making enamels to protect buried pipelines, to impregnate paperboard, tiles and fabrics; for construction waterproofing, etc. Available in 250-kilo drums or in bulk.

- 20
- ▲ 64 - 65 - 66

Plasticizer

Triacetin plasticizer used in the production of plastics.

- ▲ 56

Plasticizers, Esters, Aliphatic

Liquid esters of aliphatic alcohols and phthalic anhydride. Used to plasticize PVC and other resins. Available in 200-kilo drums.

- 20 - 54
- ▲ 66 - 85 - 87

Plasticizers, Phthalates

A variety of primary phthalate plasticizers are available. Dibutyl and di-isobutyl phthalates are used in adhesives, lacquers, emulsions, heat-sealable paper coatings and in cellophane. Butyl octyl phthalate is a fast fluxing and high solvating vinyl chloride plasticizer. Di-iso-decyl, di-iso-octyl, di-octyl and iso-octyl-iso-decyl phthalates are general purpose plasticizers for polyvinyl chloride and offer optimum performance at low cost in film, sheeting, extrusions and plastisols. Available in 200-kilo drums. (Only butyl octyl, dibutyl and di-iso-octyl phthalates are sold in Brazil.)

- 14 - 15 - 16 - 20
- ▲ 63 - 64 - 66

Plastic Trays

High impact polystyrene used as an inner container for CRYOVAC "S" film-wrapped foodstuffs such as sliced cuts, cut-up poultry, sweets and pastry, sausages and cheese.

- 11
- ▲ 61 - 62 - 63 - 83 - 85

Plastic Tubes, Collapsible

Used for grooming, cleaning and home products; pastes for industrial applications such as adhesives.

- 11
- ▲ 62 - 63

Polyamides

Solid DARAMID—Polyamide based on dimeric acids used for production of varnishes and inks for printing on substrates which present difficulties of adhesion. Also used for production of hot melt adhesives specifically in the shoe industry.

Liquid DARAMID—Polyamide of various viscosities used as epoxy resin curing agents, in production of varnishes, adhesives and molded products.

- 12
- ▲ 62

Polyester Resins

Based on esters of dimeric acids for production of semi-rigid and rigid polyurethane foams. Also a number of polyester resins which are sold to the button industry, boat manufacturers, corrugated laminate manufacturers and tank manufacturers.

- 14 - 15 - 16 - 26
- ▲ 63 - 64 - 72

Polyethylene Film

Embossed and/or printed polyethylene film used as book bindings, table cloths and economy bedspreads.

- 27
- ▲ 73

Polyurethane Foam

Polyurethane and polyester foams are cast and sold either as slabs, cut pieces of finished mattresses, pillows and other products for the furniture and automotive industries. Also thin sheets are produced which are laminated to textiles.

- 13
- ▲ 63

Polyvinyl Acetate Resin

A synthetic resin used in latex water paints, and for adhesives, coatings, lacquers and inks.

- 15 - 16 - 26 - 36 - 45
- ▲ 64 - 72 - 83 - 85

Polyvinyl Chloride Film, Supported

A family of plastic products for use in upholstering furniture and automobile seats.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

Polyvinyl Chloride Film, Unsupported

A group of plastic products for bookbinding, wallets, women's handbags, oilcloth, shower curtains, rainwear and clothing.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

Polyvinyl Chloride Molded & Blown

Polyvinyl chloride molded and extrusion blown products.

- 11
- ▲ 62 - 63

Polyvinyl Chloride Pipe

PVC plastic pipe and fittings for conventional pressure piping and industrial drainage systems.

- 11 - 47
- ▲ 61 - 63

Polyvinyl Chloride Resin

Suspension and emulsion homopolymers and copolymers used for molding, extrusion, calendaring and spread coatings.

- 51
- ▲ 83

Polyvinyl Chloride Sheet, Supported

A number of plastic products used for flooring, in buses, buildings and airplanes.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

Polyvinyl Chloride Sheet, Unsupported

Used in hospitals and for baby cribs.

- 13 - 27 - 33 - 53 - 54
- ▲ 63 - 73 - 79 - 86 - 87

Portland Cement

Very fine gray powder composed of compounds of lime, alumina, silica and iron oxide. Hardens slowly when mixed into a paste with water and does not require air. Used in all types of construction. Available in multiwall bags.

- 9
- ▲ 56 - 59

Pouches

Square CRYOVAC bags, thicker than the standard bag and vacuumized and sealed by a pouch machine. Type 111 pouches are used mainly for small packages of cheese wedges, frankfurters and sausages.

- 12
- ▲ 62 - 64 - 81 - 85

Retarding Additives

Organic formulations for controlling the initial set characteristics of portland and other hydraulic cements.

- ▲ 55 - 62 - 64 - 72 - 75 - 78 - 83 - 85

Sealers

A complete line of concrete, wood-floor, and wall sealers which act both as preservatives and as preparations for further finishes.

- 24 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83 - 85

Seam Dopes

Solvent or water-based liquids used to fix leaking cans. Applied to the flange of cans by brush, spray or felt pad. Available in 200-liter drums.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Shrinking Bags

Made by extrusion of polyvinylidene chloride copolymer (saran). The resulting tubing is cut crosswise and sealed by radio frequency impulse and in automatic bag machine. CRYOVAC bags are heat shrinkable and impermeable to moisture and oxygen. Normally used for vacuum packing of frozen poultry; fresh, cured and smoked meats; and cheese.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 81 - 83 - 85

Shrinking Films

Polyethylene and polypropylene film for the packaging of toys, phonograph albums, meats, cheeses and bakery items.

- 12
- ▲ 62 - 85

Polyvinylidene chloride film for the packaging of toys, phonograph albums, meats, cheeses and bakery items.

- 12
- ▲ 62

Side Seam Cements

Thermoplastic resin used as replacement of solder in side seams of cans. Applied manually or by automatic applicators at can body makers. Available in 100-kilo drums and 50- and 30-kilo fiber drums.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Soldering Fluxes, Liquid and Crystal

Water and alcohol solutions of zinc chloride and double salts of zinc and ammonium chloride, as well as crystals used in automatic can lines for soldering operations. Available in 100-kilo drums.

Liquid

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 81 - 83 - 85

Crystal

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Specialty Products

Architectural, construction and maintenance products related to masonry work, including curing, form coating and cleaning compounds; hardeners and bonding agents; construction equipment and accessories.

- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Stearic Acid

Colorless, odorless, wax-like material used in lubricants, soaps, candles and pharmaceuticals.

- 15 - 16
- ▲ 64

Technical Coatings

Oil, silicone, resin, epoxy and vinyl latex formulations for protection of masonry, wood and steel under particularly severe environmental conditions. Products include heat- and acid-resistant coatings, swimming pool coatings and extra-heavy-duty traffic paints.

- 24 - 26 - 30 - 45
- ▲ 64 - 70 - 73 - 75 - 76 - 83 - 85

Textile Auxiliaries

Number of chemical compounds useful in slashing and finishing textiles.

- 26 - 27
- ▲ 71 - 72 - 73

Textile Finishing Equipment

Automatic washers and dryers used for cleaning and drying textile print blankets. Orbital washers and custom-designed finishing equipment for wet processing of natural and synthetic fabrics.

- ▲ 55 - 62 - 64 - 73 - 75 - 76 - 81 - 83 - 85

Textile Printing Blankets

Roller Printing Blankets: wide, fabric-and-rubber-laminated continuous belts, smooth-surfaced or with embossed surfaces that mechanically entrap excess printing colors.

Screen Printing Blankets: wide, fabric-and-rubber-laminated, continuous, smooth-surfaced belts.

Lapping Blankets: wide, continuous rubber belts faced on both sides with wool and cotton fabric to cushion high-roll pressure exerted during printing operations.

All blankets available in widths and lengths according to customer specification.

- ▲ 55 - 62 - 64 - 73 - 75 - 76 - 81 - 83 - 85

Textiles

Cotton textiles such as poplins, drills, print goods, flannels, sheetings and denims. Finished products go through successive processes such as bleaching, mercerizing, dyeing, roller and screen printing.

- 41 - 42 - 43
- ▲ 83

Thermoplastic Coatings

Wax and resin types used primarily as inner coatings for lead and aluminum collapsible tubes. Also used as heat-sealable protective coatings for paper wrappers. Packaged in 35-pound fiber containers.

- ▲ 55 - 62 - 64 - 72 - 81 - 83 - 85

Thinner

Liquid mixture of hydrocarbons and oxygenated solvents. Used as a diluent for paints, lacquers and other finishes. Available in 55-gallon drums, or in bulk.

- 20 - 24
- ▲ 66 - 70

Toys

This line consists mostly of dolls made by rotational casting of PVC plastisol resins.

- 27
- ▲ 73

Underbody Coatings

Protective underbody coatings based on rubber, bitumen and plastisol for car, bus and truck manufacturers, vehicle dealers and service stations.

- 7 - 8 - 11 - 16 - 25 - 30
- ▲ 48 - 49 - 51 - 57 - 63 - 74 - 82

Urea Formaldehyde

A thermosetting, insoluble, infusible resin made through the combination of urea and formaldehyde. Used in buttons, baking enamels, tableware and textile finishes.

- 26
- ▲ 72

Varnishes

A complete line of finishes for interior and exterior

use on masonry, metal and wood for protection against water, weather, oil and grease.

- 24 - 26 - 30 - 45
- ▲ 84 - 70 - 73 - 83

Wash Primer

An excellent medium to increase the adhesion properties of the finish coats. Applied by spray and available in one-gallon containers only.

- 24
- ▲ 70

Waterproof Canvas

Waterproof fabric for use on jeeps and as tent material.

- 27
- ▲ 73

Waterproofing and Roofing Materials

A variety of moisture control products for metal, wood and masonry.

- 24
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 83 - 85

Water Reducing Admixtures

Catalyzed dispersing agents for reduction of water/cement ratios in concrete and mortar to increase compressive strengths.

- ▲ 58 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Wetting Agents, CANSURFASS

Additive compounds to improve the performance of lining compounds under adverse lining conditions. Available in 2-kilo or one-gallon cans.

- 1 - 12
- ▲ 55 - 58 - 62 - 64 - 72 - 75 - 76 - 81 - 83 - 85

Wood Lacquers

Finishes used for their decorative and protective properties. Tinting, shading and transparent lacquers available in gallon and quart cans.

- 24 - 26 - 30 - 41
- ▲ 64 - 70 - 75 - 76 - 83

Manufactures, processes and markets a broad line of food products including cocoa, chocolate and confectionery products, desserts, dairy products, pickles and relishes, snack foods, soft drinks, seafoods, canned and frozen foods, jams and preserves, salad dressings, syrups and beer.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

CHOCOLATE AND CONFECTIONERY DIVISION**● Plants****BELGIUM**

- 1 Leaf Belgium N.V.
Industriepark, Rijksweg
Bornem
Tel. (03) 77-17-71

CANADA

- 2 Leaf Confections Limited
432 Comstock Road
Scarborough, Ontario
(416) 751-0740

FRANCE

- 3 C. J. Van Houten & Zoon
S.A.R.L.
11, rue Lazare Hoche
Boulogne sur Seine
Tel. 605. 71. 40

GERMANY

- 4 C. J. Van Houten & Zoon A. G.
Hubertusstrasse 189, Krefeld
Tel. 28107

IRELAND

- 5 Leaf Limited
Kilcock, County Kildare
Tel. 3367
- 6 Liam Devlin and Sons Limited
49/50 Cork Street, Dublin
Tel. 53812

- 7 Urney Chocolates, Limited
Tallaght, County Dublin
Tel. 592766

JAPAN

- 8 Kabaya-Leaf, Inc.
198 Shimoishii
Okayama City
(Okayama Prefecture)
Tel. 24-4311

NETHERLANDS

- 9 N. V. Cacaofabriek "De Zaan"
P. O. Box 2, Koog Zaandijk
Tel. 02980-80770
- 10 N. V. Drankenindustrie Raak
Hoogstraat 47, Koog aan de Zaan
Tel. 02980-83258
- 11 Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Prinses Irenelaan 7, Weesp
Tel. 02940-7220
- 12 Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Oude Haven 24a, Medemblik
Tel. 02274-541

- 13 Verstuivingsbedrijf "De Zaan
Spray" N. V.
(Non-Confectionery Contract
Spray-Drying)
Energieweg 9, Nunspeet
Tel. 03412-2974

SINGAPORE

- 14 Sheng Huo Enterprise
(Malaysia) Limited
481 Tanglin Halt Road
Tel. 644. 201

UNITED STATES

- 15 Ambrosia Chocolate Co. Division
528 West Highland Avenue
Milwaukee, Wisconsin 53203
(414) 271-2089
- 16 Ambrosia Chocolate Co. Division
3746 North Davidson
Charlotte, North Carolina 28206
(704) 375-3731
- 17 Hooton Chocolate Company
355 Fifth Street
Newark, New Jersey 07107
(201) 485-5385
- 18 Leaf Brands Division
1155 North Cicero Avenue
Chicago, Illinois 60651
(312) 378-6000

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Borgerhout-Antwerp
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- 23 Cacao De Zaan Import-
gesellschaft m. b. H.
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2000 Hamburg 36
Tel. 343056
- 24 C. J. Van Houten & Zoon A. G.
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Tel. 28107
- 25 Vermittlungsagentur der N. V.
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IRELAND

- 26 Leaf Limited
Kilcock, County Kildare
Tel. 3367
- 27 Liam Devlin and Sons Limited
49/50 Cork Street, Dublin
Tel. 53612
- 28 B. C. Murch & Co. Ltd.
(See Urney Chocolates, Ltd.)
- 29 Urney Chocolates, Limited
Tallaght, County Dublin
Tel. 592766

ITALY

- 30 Van Houten (Italiana) S.R.L.
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Tel. 02980-80770
- 34 N. V. Drankenindustrie Raak
Hoogstrat 47, Koog aan de Zaan
Tel. 02980-83528
- 35 Koninklijke Fabrieken
C. J. Van Houten & Zoon N. V.
Prinses Irenelaan 7, Weesp
Tel. 02940-7220
- 36 Verstuivingsbedrijf "De Zaan
Spray" N.V.
(Non-Confectionery Contract
Spray-Drying)
Energieweg 9, Nunspeet
Tel. 03412-2974

SINGAPORE

- 37 Van Houten (Malaysia) Ltd.
22 Chulia Street
Tel. 77108

UNITED KINGDOM

- 38 Van Houten Limited (Bulk
Products Sales Office)
Hill House, Hill Avenue
Amersham, Bucks
Tel. Amersham 5531/3
- 39 B. C. Murch & Co. Limited
c/o Messrs. Armitage & Norton
Chartered Accountants
Salisbury House, Finsbury Circus
London, E. C. 2
Tel. National 8418
- 40 Grace Brothers, Limited
Glen House, Stag Place
London, S.W. 1
Tel. Victoria 5511

UNITED STATES

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3746 North Davidson
Charlotte, North Carolina 28202
(704) 375-3731
- 42 Ambrosia Chocolate Co. Division
528 West Highland Avenue
Milwaukee, Wisconsin 53203
(414) BR 1-2069
- 43 De Zaan, Incorporated
82 Wall Street
New York, N. Y. 10005
(212) HA 5-2656
- 44 Hooton Chocolate Company
339-361 Fifth Street
Newark, New Jersey 07107
(201) 485-5385
- 45 Leaf Brands Division
1155 North Cicero Avenue
Chicago, Illinois 60651
(312) 378-8000
- 46 C. J. Van Houten & Zoon, Inc.
537 Greenwich Street
New York, N.Y. 10018
(212) WA 4-7101

PRODUCTS

Chocolate Liquor (Cocoa Mass)

Obtained by grinding roasted cocoa beans after they have been broken and the shell removed. It is used to make milk and sweet (dark) chocolate or to supply the chocolate flavoring to various kinds of foods. Available in molded form, packed in cartons and boxes, and in liquid form in heated tank trucks.

- 7 - 9 - 11 - 14 - 15 - 17
- ▲ 19 - 22 - 23 - 24 - 25 - 29 - 30 - 32 - 33 - 35
- 37 - 38 - 39 - 41 - 42 - 43 - 44 - 46

Cocoa Butter

Natural fat of cocoa beans, obtained by pressing chocolate liquor. It is sold in bulk for chocolate manufacture and packed as molded cakes or in liquid form in heated tank trucks.

- 3 - 4 - 9 - 11 - 14 - 15
- ▲ 22 - 23 - 24 - 25 - 28 - 30 - 32 - 33
- 35 - 37 - 38 - 41 - 42 - 44 - 46

Cocoa Powder

The pulverized and sifted residue resulting from pressing part of the cocoa butter from chocolate liquor. It is used as a chocolate flavoring material for chocolate drinks, ice cream, confectionery, cookies, prepared cake mixes, syrups, etc. Offered in various ranges of cocoa butter content from 8% to 35%. The most customary grades are 10%-12% (low-fat powder), 16%-18%, and 22%-24% (high fat powder or "breakfast cocoa"). Available in bulk packing or consumer size packages.

- 3 - 4 - 9 - 11 - 14 - 15
- ▲ 19 - 22 - 23 - 24 - 25 - 30 - 32 - 33 - 35
- 37 - 38 - 39 - 41 - 42 - 43 - 44 - 46

Coatings (Three Types)

Chocolate coating, or couverture, and confectioner's coating are used to enrobe such products as candy bars, boxed chocolates, cookies, cakes, etc. Chocolate coating is made from chocolate liquor and pure cocoa butter, while "confectioner's coating" uses cocoa powder and hardened vegetable fat. Both types are available in molded form or in liquid form in heated tank wagons. Ice cream novelty coatings are generally made with a vegetable fat having a lower melting point than cocoa butter. They can be made with either chocolate liquor or cocoa powder as the basic flavor ingredient. Available in several sizes of steel drums or in liquid form in heated tank wagons.

Couverture & Confectioner's Coating

- 7 - 11 - 14 - 15 - 16 - 17
- ▲ 19 - 22 - 24 - 29 - 30 - 35 - 37 - 38

Ice Cream Novelty Coating

- 6 - 15 - 16 - 17
- ▲ 29 - 41 - 42 - 44

Chocolate Confectionery Products

Plain and filled bars and tablets, bonbons, and other specialties. Available in consumer size packages and bulk (weigh-out).

- 7 - 11 - 12 - 14
- ▲ 19 - 22 - 24 - 28 - 29 - 30
- 32 - 35 - 37 - 39 - 46

Non-Chocolate Confectionery Products

Licorice products, paste products, boilings, chewing gum, expanded candies, cream filled sugar wafers, novelty confections and other sugar candy products, available in consumer packaging and bulk (weigh-out). In certain countries Van Houten or its sales agents act as distributors for the Van Melle line of sugar confectionery in proprietary or consumer packaging.

- 1 - 2 - 5 - 6 - 7 - 8 - 11
- 14 - 17 - 18
- ▲ 19 - 20 - 21 - 22 - 24 - 26 - 27 - 29
- 30 - 31 - 32 - 35 - 37 - 38 - 45 - 46

Vermicelli

Chocolate sprinkles and various flavors of sugar sprinkles in both consumer and bulk packaging.

- 9 - 11
- ▲ 19 - 22 - 23 - 24 - 30 - 33 - 35 - 37 - 43 - 46

Cookie Drops

Chocolate and non-chocolate miniature drops used in sweet biscuits or cookies, usually along with nut meats. Available in bulk packaging only.

- 11 - 15 - 17
- ▲ 19 - 22 - 24 - 30 - 32 - 35
- 37 - 38 - 41 - 42 - 44 - 46

Milk Chocolate Crumb

Composed of milk, chocolate liquor and sugar and used to make milk chocolate. Available in bulk packaging only.

- 7
- ▲ 29

Puddings and Desserts

Pudding powders and instant desserts, sold as proprietary packaged products for consumer use.

- 3 - 4
- ▲ 22 - 24

Coffee and Tea

Available in consumer or proprietary packaging.

- ▲ 35

Nuts and Soft Drinks

Salted and flavored peanuts, vacuum and non-vacuum packed; carbonated and non-carbonated soft drinks and syrups in consumer size bottles; non-carbonated soft drinks in fountain or self-service dispensers.

Nuts and Bottled Soft Drinks

- 10
- ▲ 34

Non-Carbonated Soft Drinks in Dispensers

- 3 - 10
- ▲ 22 - 36

EUROPEAN CONSUMER PRODUCTS DIVISION

● Plants

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- 48 Eta. Edouard Materne S.A.
22 Rue du Progres
Jambes
Tel. (081) 31523

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- 49 Hellerup Fløde Is, A/S
Fabrik Fruedal, Tureby

- 50 Hellerup Fløde Is, A/S
Onsgaardvej 5, Hellerup
Tel. Hellerup 8800

FRANCE

- 51 Compagnie des Restaurants
Jacques Borel S.A.
58 Avenue de Saxe
Paris 15

- 52 S.A. Confitureries Materne
Boué (Aisne)
Tel. (1023) 4

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- 53 Hughes Brothers Limited
Hazelbrook Dairy
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Tel. 983033

ITALY

- 54 Tanara S.p.A.
Quartiere Buffolara
Marchi Parma
Tel. 68131

SPAIN

- 55 Mantequeras Arias S.A.
Arriendas
Tel. Arriendas 37

- 56 Mantequeras Arias S.A.
Canero
Tel. Casiellas 13

- 57 Mantequeras Arias S.A.
Carretera a Toro
Medina de Rioseco
Tel. Medina de Rioseco 53

- 58 Mantequeras Arias S.A.
Jeronimo Ibran 2
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Tel. Oviedo 217-195

UNITED KINGDOM

- 59 Marela Limited
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Tel. East 6021 PABX

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- 60 Hellerup Fløde Is, A/S
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Tel. Korsør 346

- 61 Hellerup Fløde Is, A/S
Helligkorsvej 4, Raskilde
Tel. Raskilde 2672

- 62 Hellerup Fløde Is, A/S
Slotsgade 50, Nykøbing Falster
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- 63 Hellerup Fløde Is, A/S
Strandvejen 75 Slagelse
Tel. (03) 524233

- 64 Hellerup Fløde Is, A/S
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Tel. (03) 72 07 70

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Localita Petriolo
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Tel. 370843

- 67 Tanara S.p.A.
Quartiere Buffolara
Marchi Parma
Tel. 68131

- 68 Tanara S.p.A.
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Milano
Tel. 537968

- 69 Tanara S.p.A.
Strada Pontevigodarzere 117
Padova
Tel. 27881

- 70 Tanara S.p.A.
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Roma
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- 72 Mantequeras Arias S.A.
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Fontanella 4
Barcelona
Tel. Barcelona 222-1646

- 73 Mantequeras Arias S.A.
Gordoniz 28
Bilbao
Tel. Bilbao 329-305

- 74 Mantequeras Arias S.A.
Cedron Del Valle 33
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Tel. Lugo 212-941

- 75 Mantequeras Arias S.A.
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- 76 Mantequeras Arias S.A.
Fernando De Lesseps 4
Malaga
Tel. Malaga 213-263

- 77 Mantequeras Arias S.A.
Plaza Apostles 5
Murcia
Tel. Murcia 215-864

- 78 Mantequeras Arias S.A.
Jeronimo Ibran 2
Uria 36
Apartado 11
Oviedo
Tel. Oviedo 217-195

- 79 Mantequeras Arias S.A.
Balanguera 20
Palma de Mallorca
Tel. Palma 232-199

- 80 Mantequeras Arias S.A.
Murillo 2
Sierpes 8
Sevilla
Tel. Sevilla 221-800

- 81 Mantequeras Arias S.A.
Cirilo Amoros 10
Maria Cristina 9
Valencia
Tel. Valencia 212-729

- 82 Mantequeras Arias S.A.
San Vincente de Paul
Zaragoza
Tel. Zaragoza 351-526

UNITED KINGDOM

- 83 Marela Limited
Saunders Ness Road
London E. 14
Tel. East 6021 PABX

PRODUCTS**Dairy Products**

Milk, butter, eggs, cheese, cream, ice cream and related products. Available both in consumer and bulk packaging.

- 49 - 50 - 53 - 54 - 55 - 56 - 57 - 58
- ▲ 60 - 61 - 62 - 63 - 64 - 65 - 66 - 67
- 68 - 69 - 70 - 71 - 72 - 73 - 74 - 75
- 76 - 77 - 78 - 79 - 80 - 81 - 82

Herrings and Horseradish Sauces

Filletted Scotch herrings combined with onions or chopped gherkins. Horseradish sauce, horseradish and beetroot sauce. Available in consumer and bulk packaging.

- 59
- ▲ 83

Jams and Preserves

A complete line of jams and preserved fruits. Marmalades, confiture, preserved vegetables and stewed apples are also available in Belgium. Sold through retail outlets in consumer packaging.

- 49 - 52
- ▲ sold through a network of retail distributors.

Olives and Cocktail Varieties

Cocktail olives, olives, cherries and capers in proprietary and bulk packaging.

- 59
- ▲ 83

Pickle Products

Includes onions, piccalilli, gherkins and walnuts, sold in consumer and bulk packaging.

- 59
- ▲ 83

Restaurant and Food Services

Fast service, limited menu restaurant, in-plant feeding and meal voucher restaurant service.

- 51
- ▲ Sold through a network of restaurants, plants and meal vouchers.

Salad Products and Edible Oils

Includes salad cream, beetroot and onion salad, and salad oils; corn oil and cooking oil are also available in proprietary and bulk packaging.

- 59
- ▲ 83

NALLEY'S FINE FOODS DIVISION**● Plants****UNITED STATES**

- 84 CALIFORNIA, Los Angeles (90058)
5001 South Soto Street
(213) 582-5121
- 85 CALIFORNIA, San Leandro (94577)
1314 Marina Boulevard
(415) 357-7600
- 86 MONTANA, Billings (59101)
451 Charles Street
(406) 252-6679
- 87 WASHINGTON, Tacoma (98411)
3303 South 35th Street
(206) 383-1621
- 88 WASHINGTON, Spokane (99220)
4120 East Broadway
(509) 535-1761

CANADA

- 89 BRITISH COLUMBIA, Vancouver
1330 East 66th Street
(604) 325-3221
- 90 BRITISH COLUMBIA, Vancouver (Annacis Island)
810 Cliveden Avenue
(604) 521-5536

▲ Sales Offices**UNITED STATES**

- 91 CALIFORNIA, Los Angeles (90058)
5001 South Soto Street
(213) 582-5121
- 92 CALIFORNIA, San Leandro (94577)
1314 Marina Boulevard
(415) 357-7600

- 93 MONTANA, Billings (59101)
451 Charles Street
(406) 252-6679
 - 94 OREGON, Portland (97214)
310 South East 12th Avenue
(503) 234-9809
 - 95 WASHINGTON, Seattle (98134)
3201 Fourth Avenue
(206) 622-6484
 - 96 WASHINGTON, Spokane (99220)
4120 East Broadway
(509) 535-1761
 - 97 WASHINGTON, Tacoma (98411)
3303 South 35th Street
(206) 383-1621
- CANADA**
- 98 BRITISH COLUMBIA, Vancouver
1330 East 66th Street
(604) 325-3221

PRODUCTS**Canned Meats and Convenience Foods**

Includes chili con carne, beef stew, corned beef hash, chicken and beef ravioli, lasagne and canned salads. Available through retail sales in consumer packaging as well as through institutional and private label sales.

- 85 - 87 - 89
- ▲ 91 - 92 - 94 - 96 - 98

Chip Dips

Refrigerated dressings and chip dips of various flavors such as french onion, smoked salmon, dill pickle clam, bleu cheese, garlic and pepperoni. Sold through retail outlets and in institutional and private label sales.

- 87 - 89
- ▲ 91 - 93 - 94 - 95 - 96 - 97 - 98

CONSUMER PRODUCTS GROUP

Chips and Snacks

Differently flavored potato chips, corn chips and twists sold through retail, institutional and private label sales.

- 86 - 87 - 88 - 90
- ▲ 83 - 84 - 85 - 86 - 87 - 88

Dressings

Includes mayonnaise, Tang Salad Dressings, sauces, sandwich spreads, mustards and condiment dressings in a wide variety of flavors sold through retail, institutional and private label sales.

- 87 - 89
- ▲ 82 - 84 - 85 - 86 - 88

Frozen Foods and Perishables

Mexican food consisting of dinners, enchiladas, tacos, tacoettes, tamales, chili and tortillas. Also includes cheese and pepperoni pizzas and salads such as cole slaw, potato salad, macaroni salad and gelatin salads

in several different flavors. Available through retail sales in consumer packaging as well as through institutional and private label sales.

- 84
- ▲ 81

Pickles and Relishes

Sweet, fresh pack, sour and dill pickles, as well as related products such as relishes. Available in retail, institutional and private label sales.

- 87
- ▲ 82 - 84 - 85 - 86 - 88

Syrups

Lumberjack imitation maple syrup and berry syrups in a wide range of flavors including raspberry, blackberry, boysenberry, blueberry and strawberry. Sold primarily in 12-ounce bottles through retail outlets.

- 87 - 89
- ▲ 82 - 84 - 85 - 86 - 88

FROZEN FOODS DIVISION SEAPAK DIVISION

● Plants

99 GEORGIA, St. Simons Island
31522
Sea Pak Corp.
(912) 638-8691

100 GEORGIA, Thunderbolt 31404
Trade Winds Company
(912) EL 4-6711

101 TEXAS, Brownsville 78520
Trade Winds Company
2954 Boca Chica Street
P.O. Box 1867
(512) 546-2211

▲ Sales Offices

102 GEORGIA, St. Simons Island
31522
Sea Pak Corp.
(912) 638-8691

103 GEORGIA, Thunderbolt 31404
Trade Winds Company
(912) EL 4-6711

104 TEXAS, Brownsville 78520
Trade Winds Company
2954 Boca Chica Street
P.O. Box 1867
(512) 546-2211

PRODUCTS

Fish

Frozen cooked and uncooked fish steaks, portions, fillets and breaded fish sticks. Sold through retail outlets and through institutional distribution.

- 99 - 100 - 101
- ▲ 102 - 103 - 104

Shrimp and Shellfish

Frozen cooked and uncooked shrimp, oysters, crabs and shellfish specialties. Available through retail outlets and through institutional distribution.

- 99 - 100 - 101
- ▲ 102 - 103 - 104

MILLER BREWING COMPANY

Brews and markets premium beer (MILLER HIGH LIFE®) through a national network of distributors and produces GETTLEMAN® beer for the Wisconsin area.

● Plants

CALIFORNIA, Azusa (91702)
819 North Vernon Avenue
(213) 334-1291

TEXAS, Fort Worth (76134)
7001 South Freeway
(817) AX 3-3132

WISCONSIN, Milwaukee
(53208)
4000 West State Street
(414) 342-4500

GRACE

GRACE PETROLEUM CORPORATION

Produces high gravity Libyan crude oil.

Headquarters Office

7 Hanover Square
New York, New York 10005
(212) 344-1200

● **Producing Operations Office**

LIBYA

TRIPOLI
P.O. Box 199
Cable: GRACEPETECO.
TRIPOLI

▲ **Sales Office**

UNITED STATES

NEW YORK, New York 10005
7 Hanover Square
(212) 344-1200